

International Abstract of Surgery

SUPPLEMENTARY TO

Surgery, Gynecology and Obstetrics

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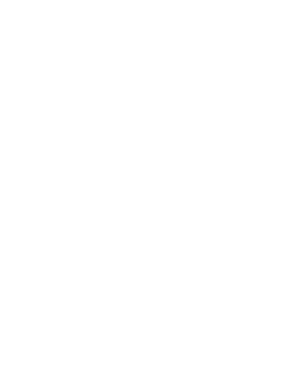
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EDITOR'S COMMENT

AUERBRUCH'S discussion of the treat ment of empyema (p 11) emphasizes the importance of the primary disease and the fact that in any given case the physician must de termine whether toxic absorption or increase of the intrapleural pressure is the more important factor in producing the patient's symptoms. In the first case, prompt and adequate drainage is indicated, in the second, simple aspiration may be the primary indication, and in such cases the removal of even a small quantity of pus often results in rapid improvement in the circulatory symptoms When persistent fever indicates the continued formation of pus, the question arises as to what method of drainage should be employed Sauerhruch prefers the closed method, even though in some cases 1th resection becomes necessary later Of those discussing the author's paper, three favored some modulication of the closed method of dramage and none advocated rih resection and open drainage Toennis, of Wuerzhurg, an advocate of the closed method of treatment, reported a series of sixty-one cases of empyema in children ranging from one to six years of age with only three deaths a remarl able record in view of the usual severity of the disease in children

Kok's clinical and experimental study of the effect of leaving accumulations of blood in the peritoneal cavity after intraperitoneal hæmor rhage (p 23) is a valuable contribution to the technique of treatment of ruptured tuhal preg His experimental work on rabbits in dicates that autogenous blood left in the peri toneal cavity has no injurious effects and does not produce peritoneal adhesions, on the con trary, it aids materially in the recovery of the anxmic animal and hastens blood regeneration Of great importance in the production of adhesions is the irritation of the peritoneum by vig orous wiping with dry sponges, such as might take place in the attempt to clear the peri toneal cavity of extravasated blood. In six clinical cases in which all of the blood, fluid and clotted, was permitted to remain in the peritoneal cavity, recovery was rapid.

Hogenauer's report of a case in which virulent

tetanus bacilli were found upon a spiniter of wool removed from the forestri two and one half months after recovery for the infection (p 4p) emphasizes the constant days are removed from the infection (p 4p) emphasizes the constant days that the first the active ammunity produces as slaght and an infected antitorium is rapidly excrete. Due sort traces may prevent resorption of found to be organized may for a time secrete little or no foun. Of great practical importance is the administration of antitetanic serum before secondary oper attorns are reformed.

audits are periormed.

Peacock a study of twenty-one cases of pen nephratic abscess (n 33) emphasizes the importance of renal and permenal suppuration as a cases of perastient septic symptoms of obscure the emphasizes the last that particularly or the emphasizes the last that abnormal or costovertehral tenderness may be the only localizing symptom of a persistent and serious melection

Wilmoth's report of a case of extensive percoast of the foot deep to an indelible pentul injury of all as an interesting addition to the small group of as an interesting addition to the small group of the such cases which have been previously reported. The fact that chemical necross due to such a cause can persus for weeks and months, and that complete excision of the affected area is necessary for cure is not always recognized, and too offer particularly in the case of the hand, loss of with structures occurs because surgical treatment is limited to repeated incisions for draininge while the necrotic process slowly continues.

Hattall and Haseltme's report of a case of acute osteony-elits of the spinous process of a dorsal vertebra going on to dural perforation and death (p. 39), Strachans review of the various methods of technique of radium application for carcinoma of the uterus in use in some of the leading gynecological climics (p. 2) and Blarr and Browns discussion of the use of large split sleep of the spinous of the particularly interesting and heighful appears which are abstracted in this months usual contractions of the literature of the spinous of the literature of the spinous of the literature of the literature of the spinous properties.

INTERNATIONAL ABSTRACT OF SURGERY

JANUARY, 1930

ABSTRACTS OF CURRENT LITERATURE SURGERY OF THE HEAD AND NECK

HEAD

Schueck F Hend Injuries A Report of 300 Cases
(Kopfverletzungen Bericht ueber 300 Faelle) Arch
f klin Chir 1023 clin 77

The author states that considerable progress has been made in the treatment of head singune particularly in America. He discusses in detail the various causes of such injuries the diagnosis the treatment (especially lumbar puncture) and the end results.

The most common causes are street accidents and less common causes industrial accidents. Males sustain such injuries more frequently than females

The injuries are divided into those with and those without involvement of the bony skull, and again into those with and those without involvement of the brain. It is often very difficult to determine definitely whether concussion or continuon of the brain is present alone of its complicated by Fracture of the base of the silical The difference between the continuon of the base of the silical The difference between the continuon of the brain are merely countilative.

In all cases of severe head trauma intracranial pressure with compression of the brain plays by faither most important role. It may occur after depressed fractizes but is associated most commonly with extracerbrail or intracerbrail harmornhage and with meningial in extracerbrail harmornhages the middle meningial artery is most frequently responsible. The diagnoss which is often difficult is considerably easier when unlateral disturbances are present and is facilitated especially by the reoutgen interestral harmornhage that the present and is admitted to the present of the present and in the present and the presen

One of the chief symptoms following crainal injury is a disturbance of consciousness. The author behaves that loss of consciousness is the result of compression of the brain stem. This theory is supported by the fact that, in the cases reviewed, disturbances of consciousness were most common in

those in which a fracture of the base of the skull was

In general no methods of examination associated until danger such as lumbir, usternal, and vaturale puncture should be used to confirm the disgnosis turnbar puncture should not be employed until the later stages. In the cases reviewed disturbances of the cranial nerves were observed only when there was a smultaneous fracture of the base of the skull So called cerebral gly cosums appeared in a cases.

In a total of 272 cases of head unjury (gunshot wounds of the head evaluded) the mortality was 11 & per cent (32 deaths) This mortality figure is to be accepted with a certain reserve. According to other statistics the mortality of fractures of the base of

the skull as about 40 per cent

When there is compression of the brain the best treatment consists in stopping the extracerebral harmorrhage by acupressure after trephination. When swich a diagnoss is made with certainty immediate operation is indicated. The author does not approve of a symptomatic decompression operation in head injuries in which a fracture of the base of the skill of an intracerebral jurity with corresponding symptoms dominates the picture. His position is regardly prophylactic trephination in the same as regardly prophylactic trephination in puncture in foreign countries are consistent with implication of the same as regardly prophylactic trephination in results. Recently mangingsium sulphate sodium chloride solution and dectrose have been given to reduce attractantal pressure in suitable case.

Follow up examinations were made in about 50 per cent of the cases reviewed by the author About half of the men and more than half of the women re examined were free from symptoms. Of the 76 pattents with persistent disturbances 6 had paraly sas of a cranial netwe and 1 was suffering from corrected epilepsy.

Mckenzie D Thrombophiebitis of the Jugular Bulb Proc Roy Soc Wed Load 1929 xu 1285. In cases of lateral sinus thrombosis reviewed by the author the mortality was 40 per cent Jugular

1

bulb thrombosis may be primary or secondary When it originates in the bulb the infection enters the bulb directly from the tympanic cavity by way of the venules and the condition is not necessarily preceded by mastorditis In secondary jugular bulb thrombosis the bulb becomes infected from the lateral sinus The condition tends to spread When it is primary in the bulb it may involve the lateral

รากบร The diagnosis is often impossible before operation but the condition should be suspected when there are signs of cavernous sinus or jugular vein thrombo sis and lymphatic glands high up under the sterno-

mastord muscle are enlarged

In the treatment ligation of the jugular above the deep thyrofacial with drainage from the unner sectioned portion the passage of a curette upward to the bony impingement and downward through the incised literal sinus and syringing may be sufficient If it is not, operation on the bulb is necessary

The author describes the surgical anatomy of the bulb in detail In the method used by him to ap proach the bulb the structures intervening between the neck incision made to ligate the jugular and the mastoid incision are dissected and the bone of the base of the skull that forms the floor of the horizontal limb of the lateral sinus is removed. The sinus hulh and vein are then exposed in one long gutter by re moval of the lip or crest of the hulb and the over W \ ROWLEY M D lying structures

Hamalainen M Ankyloses of the Jaw (Ueber Ateleranchylosen) Acta chirurg Scand 1029 luiv 493

The author reports seven cases of ankylosis of the temporomaxillary joint which have been treated at the surgical chair in Helsingfors since 1010 In all the condyle of the lower jaw or the upper part of the a cending ramus was resected and a free flap of fat then interposed. No special after treatment was giv en as the movements of mastication were sufficient to prevent a new ankylosis

In cases of undateral ankylosis the undiseased side was not ankylosed even when it had been inac-

tive for many years. Consequently the patient was able to open his mouth immediately after the ob struction had been removed In some cases the con traction of the temporal muscle necessitated chiselling of the coronoid process. In a very difficult case bleeding from a venous plexus could be controlled only by tamponing and closing the skin. Five days later the tampon was removed and the arthroplasts performed successfully In cases in which it is diffi cult to obtain hamostasis the author therefore re pards it as advisable to perform the operation in two stages if the bleeding does not come from the internal maxillary artery rather than to risk a relapse from a hæmatoma

In six of the cases reviewed the primary result was good In the only case in which the anti-losts re curred the cause of the recurrence was evidently a hæmatoma Later examinations showed that the

results in the six cases with primary healing had re mained good and that the mobility of the temporomaxillary joint had increased. The micrognathia had not improved but was of merely cosmetic **Importance**

Stapelmohr S von Crepitation of the Temporo maxillary Articulation and Habitual Lucation of the Jaw (Sur les craquements de l'articulation temporo maxillatre et les juxations habituelles de la machore) teta chirurg Scand 1920 lxv. 1

In a review of the literature the author was able to find only fift, six cases of the condition of the tem peromaxillary articulation whi h is associated with crepitation or habitual luxation of the jaw theless he helieves it is quite frequent especially the form manifested only by crepitation. He reviews surty nine cases -the fifty six reported in the litera ture and thirteen others. The cases are divided into three groups as follows

(roup 1 Twenty seven cases with only crepita tion of the jaw

Croup 2 Thirty five cases of habitual luxation with the mouth wide open

Group 3 Seven cases of intermittent luxation with the mouth nearly or half closed

The condition developed before the thirtieth year of age in 91 per cent of the cases and before the twen tieth year of age in 40 per cent. It was present before the thirteenth year in only three cases and hefore the end of the first year in only one ease. One pa

tient was fifty two years of age when the disturbance was first noted

Sixty seven per cent of the patients were females in ,o per cent of the eases the condition was uni lateral Among the males it was as frequently unt fateral as bilateral In the females it was unifateral in 70 per cent of the cases. The left side was affected twice as frequently as the right side

The causes include a primary cause and a pre cipitating cause but the majority of the cases in the literature are reported so briefly as to suggest that the condition became manifested suddenly or with out cause. In 20 per cent of the cases it was ascribed to chewing on a hard substance Jawning convul sive laughter or a blow. In several cases it developed after an infection or dental treatment. In three of the author's cases the cause was an anomaly in the position or number of the teeth. In two case reports a congenital preds position such as general clownism was mentioned Nervous affections such as epilepsy, dementia pracox and parkinsonism have also been suggested as the cause of jaw disturbances Influen za and other infectious conditions may produce an arthritis with crepitation. In two cases arthritis deformars was given as the cause It was impossible to discover any relation between the condition and variations in the depth of the glenoid cavity the height of the zygomatic tubercle or the shape or size of the condytes

In nearly all operations the meniscus or its at

tachments were found changed

In cases of Group 1 the 3 mptoms may cease spon intensuely. When they do not, and when they be come more marked, operation is necessary as in the cases of Groups 2 and 3. The operation of choice is that described by konjetavy. In cases of Groups 1 and 3 simple extripation of the mensicus may be sufficient. The author rejects the use of prostheses and injections as the treatment of choice. The incision may be made by various methods such as those of krasle kocher and Lever

Von Stapelmohr has operated upon eight cases In three the operation was bilateral A good functional and cosmetic result was obtained in all. The longest period of observation was three years and four months and the shortest one month

In a case helonging to Group 3 which was operated upon by Hybbinette only extirpation of the mennicus was done. Five years later the result was still good. Konjetzny has had six cases under observation for longer than four years, two of them for eight years.

Hauenstein k. Osteomyelitis of the Jaw and Its Relation to the Teeth (Veber the Osteomyelus der Kiefer und ihr Zusammenhang mit dem Zahnsystem) 1 jehr Zahnheilt. 1918 tilv 353 606

The author describes in detail the pathologic onatomical process in the protoctum, bone and bone marrow in the different forms of osteomietius with particular regard to the conditions in the jaw and the pathogenesis and climical picture of acute osteomyetius of the infectious beamalogeness vanety osteomyetius of the infectious beamalogeness vanety of the conditions of the pathogeness which is a support of the pathogeness of the pathogeness which is a support of the pathogeness of the

The more frequent occurrence of esteony clus of the jaw is explained by the great importance of the analogue of the tects in the clusters (the low resist, ance of embry one profilerating tissue to migry and its altered blood supply and vacular relations). In the spontaneous primary form of the condition the numerous anlagen of the dental pulp which are greent in the child is jaw provide a remarkably favorable soil for the colonization of bacteria from supply and blood creditation and their prevalue cell combinations. The same circumstances favor the secondary form of osteome-time including the conditions.

Just as the occurrence of osteomy-elits sinfluenced to the condition of the dental pulp the course and the complications of the disease are determined largely by the anatomical conditions in the child a just have a rule the influence of the conditions and lover just has a rule the influence of the place locally from the so called sequentially off this type is Zarlis so called sequentially off this place locally from the object of the condition of the dental out of earliest childhood.

The peculiarities of the young jaw which are determined by the anlagen of the teeth do not permit long delay of treatment carly operative evacuation with relief of tension should be done with sacrifice of tooth anlagen that stand in the way.

After the operation, the mouth should be frequently

Secondary osteomy elitis occurs more often in the louer jaw than in the upper jaw. Any general in fectious disease especially influenza, may be the cause. The clinical picture varies accordingly.

Of the traumatic types of esteomyelitis these caused by guishot wounds and those caused by guishot wounds and those caused by sugnitive the state of the state of

The organism most frequently responsible for osteomychits of the jaw is the staphylococcus pyogenes aureus Streptococci and pneumococci cause somewhat different morphological and clinical pictures

In the indecision that still obtains regarding the ideal treatment of osteomy-elits the danger of rup ture into the mandibular canal in the lower jaw and into the manifaltry similar in the upper jaw speaks against too long delay of wide opening of the focus The approach is usually through the mouth. Con duction or infiltration annexthesis is always used Regeneration occurs cheefly from the periosteim. No fixed rules can be given as to the preservation of endangered teeth. The decision must be made according to the indications in the particular cust list should be borne in mind however that in ost teomy-clitic even very loose teeth may become firm again. Cross Sention (2).

Bertenfeldt E. The Use of a Prosthesis in a Case of Unilatera Exarticulation of the Lower Jaw for Adamantinoma and a Brief Review of the Methods Employed for the Correction of Defects of Defects of the Conference of the Property of the Conference of the Conference of the Property of th

After giving a brief review of the various methods which have been used to correct defects in the lower yw—the use of a free intra oral splint, the use of an implantation splint of stop-barding food; the first and it parts and free bone grafting food; the first and last methods can be come and soft parts and free bone grafting food; the first and last methods can be continued to the surface reports a case of admantations of the author reports a case of admantations of the surface with exarticulation of half of the lower jan machine a free intra oral splint was applied in the affect of the perfect of the surface of

EAR

Ridout G A S The Acute Ear Proc Roy Soc Med Lond, 1929 XXII 1202

The author discusses the ear conditions which the meneral practitioner should refer to the otologist The cross are divided into those of acute and those of chrome infection. The acute conditions are simple acute oftis media obtis combined with acute mastodists and complications. furucrobias and acute ear trouble in specific fevers. The chronic conditions are drome supportate or oftis media comorditions are drome supportate to eiths media comconditions are drome supportate to eiths media comsultated and the condition of the conditions are drome supportations.

GEORGE R MCATEUR M D

Tesone P Bilateral Syphilitic Mastolditla (Mastolditla uffiltea bilateral) Rev olo neuro-offalmol y de etrug neurol 1939 1v 217

The author reviews the few cases of syphilitic mastoiditis that have been reported in the literature

and reports a case of his own

His patient was a man forts seven years of age who at eighteen pears of age acquired gonorrhoz and at the age of twenty developed a chance which was followed into the support of the supp

nancies the children are apparently well The illness for which the patient consulted the author began in the middle of January with light pain in the right retro auncular region. The pain soon involved the whole temporo occipital region and became so intense that it prevented sleep Two weeks later a hard swelling appeared back of the ear. This was treated by the application of see and by protein and vaccine therapy Because of the history of syphilis injections of mercury and hismuth were also given The swelling extended to the neck and became fluctuating On February to an in cision was made back of the ear to drain the pus and a focus of bone necrosis that was found was treated The temperature and pain then decreased but a few days later a fever of 395 degrees C developed with vomiting Mastordectomy was then performed The mastord was found transformed into a necrotic cavity The operation was followed by uneventful recovery In the after treatment

mercury and bismuth vere given.
A month later mastoiditis developed on the other side and a second mastoidetomy became occessary. After this operation treatment with iodobismuthate of quinne and neosal arisan was given. The patient is now in excellent condition.

The syphilitic nature of the mastoiditis was evidenced by the history of syphilis the specificity of

the pain, and the fact that hearing was intact and the lesion was bilateral the causaline disease being systemic Audres G Morgan M.D.

NOSE AND SINUSES

Sewalf E C and Hunnicutt L Cytological Examination of the Antrum A Review of Cases to Determine the Relationship Between the Cytological and the X Ray and Fathological Observations Arch Oldarynol, 1909 X 1

The authors present an analysis of the results obtained from a cytological commission of the animum in fifty five patients. An effort was made to establish the relationship between the cytological, the roent genological and the pathological observations. The material for cytological examination was obtained by puncture of the animum with a No 16 straight bear needle through the inferior meature. If fluid was not obtained at the first attempt a sterile warmed solition was superior and to the animum unit drawn in the manner was centraligative and assence made from the serument.

The relationship between the cytological roent genological, and operative findings and those of the roteroscopic study of the antral luning removed at operation is shown in tables. The indication for operation did not depend on positive extlogical findings alone. Other factors were considered.

The test water, containing cytological evidence of disease, was macroscopically clear in 88 per cent of the case Shreds of mucus were discovered in 54 per cent of the total number of cases. Ordinarly these shreds would wrobably have been mixed.

their shreds would probably have been musted. The authors conclude that polymorphonuclear funcocy tes found on a sunus are evidence of infection emissions is reducated by the pensistence of these cells in syste of treatment. Monumulent is the polymorphonuclear are found for found of the probable of resolution. If monounclears are found for long periods on repeated puncture, a deagnoss of low grade simulaties in justifiable.

W M PATON MD

MOUTH

Herzen P Cancer of the Tongue (Ueber Zungen d krebs) to chir Arch, 1928 xv1 357

In the oncological restitute conducted by the author there were treated in the seven very period for the seven very period of the seven very period of the seven very period of the seven very period very period

with a mortality of ra per cent. The removal of the timer was performed through the mouth possible that the assistance of an incision in the cheek. The alworld process on the affected side was restered and the tumor then excised through the neck without preventive ligation of the blood wessels. Sometime preventive ligation of the blood wessels. Sometime interest processes are the same time or from teach of the time or from teach to twenty days later.

On the basis of his extensive experience in the treatment of malignant tumors the author comes to

the following conclusions

Cancer of the tongue is a rare discree, particularly in women. If divelops on the basis of chronic inflammatory irritation. Leukoplakin of the tongue in smokers is an important elucological factor. The most common form of cancer of the tongue is cancer keratodes which mades the lymphatiss very extracted which mades the lymphatiss very expert. Because of the anatomical pecularities of the lymph glands 118 pecessary to remove all of the connective us ye in the foot of the mouth and along the course of the vessels in the neck at the time of operation or tert this region later with strong dossor featlum

Early diagnosis may be made from examination of the patient. Biopsy, particularly in the early stages is not always of great help. Precarcinomatous lingual affections should be treated early by radical excision. G. Aurov. (2)

NECK

Talman J The Carotid Gtands and Their Tu mors (Ueber die Carotisdruese und thre Ge schwießte) Nov chir 17th 1928 zv 469

In the first part of this article the author dis eu ses the macroscopic and microscopic char acteristics of the carotid glands and in the second

part their tumors

The carottd glands belong as 18 known to the sympathetic adrenalin system. They are glands of the size had shape of rice grains which he at the bifurcation of the carottds and are sometimes present in pairs. They consist of alvesh made up of clear cells from 15 to 30 mera in size enclosed in a conceils from 15 to 30 mera in size enclosed in a conceils from 15 to 30 mera in size enclosed in a conceils from 15 to 30 mera in size enclosed in a conceil from 15 to 30 mera in size enclosed in a conceil from 15 to 30 mera in size enclosed in a conceil from 15 to 30 mera in size enclosed in a conceil from 15 to 30 mera in size enclosed in a conceil from 15 to 30 mera in size enclosed in a conceil from 15 to 30 mera in size enclosed in the size enclosed in a conceil from 15 mera in the size enclosed in a conceil from 15 mera in the size enclosed in a conceil from 15 mera in the size enclosed in a conceil from 15 mera in the size enclosed in a conceil from 15 mera in the size enclosed in a conceil from 15 mera in the size enclosed in a conceil from 15 mera in the size enclosed in a conceil from 15 mera in the size enclosed in a conceil from 15 mera in the size enclosed in a conceil from 15 mera in the size enclosed in

To the try cases of carotid tumors reported in the interature the author adds a case of his own. Such growths occur at all ages and in both seets. They are usually egg shaped, smooth or slightly nodular and of variable (soft to hard) consistency. In their middle consistency in their middle consistency in the consequence that the consequence of a normal gland and therefore seem to be strumats and the constant of the tumors. They like at the infurcation added to the tumors. They like at the infurcation admentation to the constant and they are the consequence of the show a definite pulsation and they are the consequence to be offered to be one definite pulsation and they are the consequence of the common from five to twenty years. A constant sign of their presence seems to be a diluttom of the common carotid artery theory the tumor. In

the differential diagnosis it is necessary to rule out lymph gland swellings (tuberculosis, etc.), carotid ansurism, branchial tumors, vessel sheath tumors, aberrant gotters, and tumors of the parathyroids

The treatment is operative removal. Operation is attended with the danger of himmorrhage and vessel and nerve injury. In 98 surgically treated eases the mortality was 22 per cent. Eight of the deaths were due to cerebral animm 5 to pneumonia, 3 to himmorrhage and 1 to air embolism.

The prognosis with surgical treatment aside from the high mortality is not favorable. Hemplegias difficulties in swallowing, or vocal cord paralysis often develop. Regional metastasis is very rare and distant metastasis and cachesia have never been ob

distant metastasis and cachexia h

The author's case was that of a sixty year-old woman with an egg shaped carotid tumor on the right side which had developed over a period of twelve years and in the last three years had caused severe pain in the ear, neck and temple. As prep aration for the operation the common carotid artery was compressed for from twenty to ninety minutes twice daily for three weeks Removal of the tumor was effected by excision of a portion of the common carotid artery and its end branches and a part of the vagus nerve Recovery resulted When the patient was discharged she showed a narrowing of the right pupil slight ptosis and paralysis of the right vocal cord. The removed specimen measured 8 by 5 by 2 5 cm On microscopic examination it was found to he a struma (hyperplasia) of the earoud cland G ALIPOV (Z)

Fowler C II and Hauson W A The Surgical Anatomy of the Thyrold Glund with Special Reference to the Relations of the Recurrent Langued herce Surg Gynce & Obst, 1920 221 59

This report is based on dissections of 200 thyroid glands and 400 recurrent larp ageal nerves in cadavers Special attention was paid to the relation of the deep cervical fascia, inferior thyroid artery, and recurrent larvangeal nerve It was found that the so called capsule of the

thyroid gland formed from the middle or pretracheal layer of the deep cervical fasca is not as definite an anatomical entity as it is generally assumed to be

The indirect course of the recurrent laryngeal nerve is explained by the embryological development of the region. This nerve was found to he with in the crusule of the thyroid when the latter was well desteloped.

The relation between the nerve and the gland is closest on the posterior surface of the middle third of the lateral lobe of the thy food where the nerve is an direct contact with the gland. In 26 cases the recurrent nerve passed posterior to the main hranches of the inferior artery, in 104 cases it passed anterior to them and in 34 cases it passed between them. The position of the recurrent nerve in relation to the vessels and adenomations and authority of the sessels and the sessels and the sessels and the sessels and the sessels are sessels and the sessels are sessels as the sessels are sessels as a sessel and the sessels and the sessels are sessels as a sessel and the sessels are sessels as a sessel and the sessels are sessels as a sessel and the sessels and the sessels are sessels as a sessel as a sessel and the sessels are sessels as a sessel as a

sternal lobes varies greatly. The authors were un able to demonstrate any change in the position of the nerve relative to the gland from anterior displace-

ment of the lateral lobes

The relation between the external laryngeal branes
of the superior laryngeal nerve and the superior
thyroid artery and upper pole of the thyroid gland
is so infirmate as to surrest that it may have a bear

ing on postoperative vocal disturbances

Town II Garrock M D

Thompson W O and Thompson P I. The Significance of a Low Basal Metabolism Follow ing Thyrotoxicosis Am J Surg 1929 vi, 48

The authors review sixt, six cases showing a basal metabolic rate below -is per cent after treatment lor toric goiner. In only eleven were there says and symptoms characteristic of definite myxocdema. In three cases the myxocdema was temporary, and in eight presumably permanent.

It is considered significant that in one of the cases of temporary myrcodema the condition was shown to be the result of the postoperative administration of sodine

The authors emphasize that in the interpretation of the degree of elevation of the basal metabolism in thyrotoxicosis the level of the patients normal

metabolism must be taken into consideration.

In most of the cases of myxxxdems reviewed the basal metabolic tate was below -25 per cent. In all of those in which the low metabolism could be re-

garded as normal the rate was above -25 per cent

N. N. Rowley M.D.

Fulle G B C. and Galbissi, F The Treatment of Parathyroprival Tecany with Grates of Fixed Parathyroid (Terapia dells tetana) parainreopsiva con inclusion di paratiroide fissata) Sperimentale 1949 [Vixili 187]

According to Maragliano a part of the endocrine effect noted after the grafting of glands is due to the bormone contained in the fresh tissue and it is doubtful wheter similar effects can be obtained in the grafting of fixed tissue. To settle this question the authors made experiments on does which we as a pixel and quite severe parathix optival syndrome following the removal of the parathix you will be the control parathy roudectomy, parathy rouds tixel with 10 per cent formalin were grafted into the subcutaneous tissue. In one group of animals the parathyroids to the animals themselves were used in a second group the parathy rouds of other dogs and in a third group the parathy and so feattle. He protocols of the ex

peraments are reported in detail. The results show that such gritts have a decide effect on the tetany produced by removal of the parathroyals but the grafting of fixed parathroyal but the grafting of fixed parathroyal tususe even if repeated see real times, does not prevent the ulumate death of the animal from para thyrophrval cacherus. No matter whether the grait sautophastic chomoplastic or thereposition, if one autophastic chomoplastic parathroyal extension and parathroyal extra homoplastic graft of fixeh parathy and blowers the effect of the injection of parathry one detruct prepared according to Collips method which is generally conceded to be beneficial in parathry operval tetany.

AUDRES & MOROSS MID

Nylander P E A Parachyroid Cysts of the Neck (Ueber parathyroidale Helszysten) 16th chirurg Scand 1929 111v, 539

The author describes a cust of the neck which de veloped slowly between the angle of the jaw and the stemocledomastood muscle and resembled chincally at proct congenital literal cyst of the neck. The ps itent was a boy sutten years of age The cyst wall was jined by columnar epithelium It contained a considerable amount of muscular tissues and a small before the process of the contained and the small produces.

SURGERY OF THE NERVOUS SYSTEM

BRAIN AND ITS COVERINGS, CRANIAL NERVES

Boschl G Serra A and Maccanti A Acute Hydrocephalus Treated by Catheterization of the Third Ventricle through the Corpus Calla sum Cure (Idrocefalo acuto curato col catetensmo del terzo ventucolo attraverso il corpo calloso guara gione) Riforn a mid 1929 xlv 737

The nationt whose case is reported was a boy four teen months of age who had just begun to talk and walk. He had had no illness except fever for a day or two four months previously There was no history of syphilis. The illness reported by the authors began about twenty days before the patient's ad mission to the hospital with a high fever which lasted about twelve days. The patient soon became unable to hold his head up and a convergent strabismus that had been present previously became worse. When the child was admitted to the hospital he had a large head with an olympic forchead and open fontanelles His head drooped Convergent strabismus was Examination revealed conjugate clonus upward and a little to the left weakness of the left arm active tendon reflexes and a bilateral Babinski reaction which was not constant. The patient was unable to stand or speak

On roent Len examination of the skull the outline at the base was obscure and the bones of the skull were not very opaque. The fontanelles appeared abnor

mally large

Following lumbar puncture the pressure fell The fluid showed a slight increase of albu min The Nonne Apelt test was negative. Mer a few days there was no longer any clongs of the eyes

On the basis of a chagnosis of hydrocephalus the corpus callosum was punctured by the Anton Bramann technique A large amount of fluid was

discharged in a tet

Two weeks after the operation the child was able to hold up his head and to walk with aid as well as before the illness. After a very he was able to speak normally also to walk alone though he fell rather readily libs skull was slightly larger than after the operation but the rocatgen picture showed improve ment in the hydrocephalus | The outline at the base was clear and the bones showed almost normal

The authors conclude that this was a case of non communicating hydrocephalus probably due to hereditary syphilis. A number of operations have been proposed for the condition While puncture of the corpus callosum is not without danger the an thors case shows the good results it may give

AUDREY C MORGAY M D

Arce J Balado M and Franke E A Case of Actinomy cosis of the Bratn (Un caso de actino microsscerebral) Arch argent deneurol , 1929 IV 88

Actinomycosis involving the nervous system is serv rare Involvement of the brain usually occurs by continuity though a few cases of distant meta stasis are on record The symptoms are those of men ingitis with more or less intense irritation of the cor tex and with or without abscess formation. The brain abscess develops slowly. Its most pronounced siens are somnolence loss of appetite, and emacia tion -

The prognosis is serious. Since in the cases in which recovery resulted the microorganisms were not found in the spinal fluid the diagnosis may have been incorrect

When a diagnosis of brain abscess is made tre phynation is indicated but in some instances as in the case reported by the authors the presence of multiple abscesses may render operation difficult

The authors patient was a man thirty three years of are who had been engaged in the harvesting of grain life illness began with swelling of the gums on the right side for which his dentist had extracted the lower third molar on that side. Two months after the extraction of the tooth a swelling appeared on the right cheek to front of the external auditory mentus. When this was incised blood and pus were As the swelling extended downward along the border of the maxilla a number of incisions were made. Three months later the patient was able to return to work. He was then well for two months but at the end of that time his right cheek again became swollen and he experienced difficulty in opening his mouth. Another incision was then made in front of the tragus. The pain and swelling decreased but the trismus persisted. Later the swelling extended to the right temporal region and the trismus grew worse On the patient s admission to the hospital the swelling in the right temporal region was incised. Microscopic examination of the pus revealed actinomyces Somnolence and signs of meningitis developed and death resulted

lutonsy showed two abscesses of the right hemi sphere one near the fissure of Sylvius and the other in the first temporal convolution. The microscopic findings are described in detail and shown in photo micrographs some of which are colored The report

is supplemented by a very extensive bibliography AUDREY G MORGAN, M D

Dandy W E Operative Relief from Pain In Lesions of the Mouth Tongue and Throat Operative Relief from Pain In trch Surg 1929 vix 143

The development of an operative attack on the trigeminal and glossopharyngeal nerve at the brain sternal lobes varies greatly. The authors were un able to demonstrate any change in the position of the nerve relative to the gland from antenor displace ment of the lateral lobes.

The relation between the external lary ageal branch of the superior laryngeal nerve and the superior thyroid artery and upper pole of the thyroid gland is so intimate as to suggest that it may have a bear ing on postoperative vocal disturbances.

Jone II Garrock A D

Thompson W O and Thompson P k The Significance of a Low Basat Metabolism Follow ing Thyrotoxicosis 4m J Surg 1929 vii 43

The authors review sixty his cases showing a basel metabolic rate belon -is per cent after treatment for toxic goiner. In only eleven were there signs and symptoms characteristic of definite my reedema. In three cases the myxerdema was temporary, and in eight presumably permanent.

It is considered significant that in one of the cases of temporary my accduma the condition was shown to be the result of the postoperative administration

of todine

The authors emphasize that in the interpretation of the degree of elevation of the basal metabolism in thyrotoxicous the level of the patients normal metabolism must be taken into consideration

In most of the cases of myxordema reviewed the basis metabolic rate was below -25 per cent. In all of those in which the low metabolism could be regarded as normal, the rate was above -25 per cent. W. X. Rowley, M.D.

Fulle G B C and Gatbissi F The Treatment of a rathy-copelval Tetany with Grafts of Fixed Farathy-roid (Tetanya della tetana paratteropna con inclusioni di parattroide fissata) Sperimentale 1929 Ixxxii 157

According to Maraghano a part of the endocrine effect noted after the grafting of glands is due to the

hormone contained in the fresh is we and it is doubtful whether similar effects can be obtained by the grafting of freed tissue. To settle this question the authors made experiments on dogs which show a typical and quite severe parathyropinals podemic following the removal of the parathyropinals podemic officioning the removal of the parathyropinals of the parathyropic parathyropic parathyropic parathyropic parathyropic parathyropic parathyropic parathyropic parathyropic of the summer of the parathyropic parathyropic of cities of the dogs and in a third group the parathyropic of cities of the companies of the companies of the parathyropic of cities of the protocols of the cities of the companies are reported in death of the paraments are reported in death.

The results show that such grifts have a decode effect on the team produced by zeronal of the parathyrous's but the grafting of faced parathyrous's tasset even if repeated several times does not prevent the ulumnate death of the animal from point and the state of the parathyrous's state of the parathyrous's autoplastic or shomoplastic or heteroplate it does not have as intense or as durable an effect as only have a shomoplastic part of first hyparthyroid. However, the effect of fixed parathyroid is much better than the effect of the injection of paretth roid evitact prepared according to Colling and the parathyroid evitact prepared according to Colling the parathyroid evitact prepared according to Colling the parathyroid evitact prepared according to Colling and the parathyroid evitact prepared according to Colling the parathyroid evitact prepared according to the parathyroid evitact prepared according

AUDRES C MORGAN M D

Nylander P E A Parathyroid Cysta of the Neck (Ueber parathyroi fale Italistysten) frie thirms Scand 1939 Intv 539

The author describes a cyst of the neck which de veloped slowly between the angle of the jaw and the stemocledomastical muscle and resembled disnocally a typical congenital lateral cyst of the neck. The fit tent was a boy sixten jeans of age. The cist will was lined by columnar cytichieum It contained a considerable amount of muscular insist and a made considerable amount of muscular insist and a made considerable amount of muscular insist and a made considerable amount of muscular insists and a made The hamorrhages, which are not infrequent, are probably in some cases at least, of traumatic ortein

Hurst's article is illustrated by a large number of plates and photomicrographs of the lesions in various tissues in the different stages of the disease ALBERT S CRAWFORD, M D

Kortzeborn, A Laminectomy in a Case of Angl oma Racemosum of the Spinal Cord Death Later from Angurism of a Cerebral Artery Due to Fungus Disease (Laminektomie bei Angiome racemosum des Ruekenmarkes. Spaettod an Schum melpilzaneurysma einer Hirnartene) Zentralbl f Chir 1020, p 863

Angioma racemosum of the spinal cord is char acterized by a protracted course and periodic variations in the symptoms due apparently to variation in the filling of the vessels. When tensely filled the vessels produce progressive disturbances of function through direct pressure from without or alterations in the circulatory conditions within the apmal cord

The condition can seldom be diagnosed either neurologically or myelographically before operation As a rule it is necessary to be satisfied with the diagnosis 'a space limiting process of the spinal cord '

The three possibilities of myelographic examina tion are (1) a negative myelogram (Juengling's case) (2) arrest of the principal mass of the medium in the vascular loops (Perthes case) and (z) pas sage of the main mass with the arrest of small drop lets (the author's case)

In the kortzeborn's case the vascular mass was exposed and removed through a laminectomy open ing extending from the eighth dorsal to the first lumbar vertebra Primary healing occurred After the operation movement was improved only in the ankle joints. Ten weeks later death resulted from hamorrhage from an angurism of an artery of the base of the brain due to fungus disease. The author believes that the racemose angioma (probably had no relation to the fungus disease except that it lowered the patient's resistance to the parasite WERNER BLACK (Z)

stem TorTurgemnal and glossopharpneal he douloureux is now turned to advantage in the relief of pain originating in the peripheral hranches of these nerves from such conditions in chronic ulcer radium burns and malignant lesions of the tongue and throat However, this operative tongue and throat However, this operative of the conditions of the condition of the c

The subcerebellar approach allows exposure and section of both nerves hecuse of their close proximity at the brain stem. The sensory root of the ingeninal can he reached much more easily by this route than by the older approach along the floor of the temporal foss (Hartley krause). The motor branch of the ingeniums is not enagered and there is almost complete absence of the cornerl redness and ulteration aharh are method with the use of the Hartley Krause.

The after effects of the operation are limited to the loss of senation. In three cares in which glossopharyngcal nerve alone was cut there was no appreciation of the senaory loss atthough the objective senaory loss was complete. In seven of ten cases "senaory loss was complete. In seven of ten cases "senaory loss was complete. In seven of ten cases "senaory loss in the trageminal area was only partial the preservation of sonos secusion being perhaps as indication of senaory fibers arcompanying the motor branch which is always left intact.

Section of the glosopharyngeal nerve as indicated whenever the sensory field of his merve is invaded by a malignant chronic or incutable lenon. Alcohol nigetions are contar indicated because of the close association of the nerve with the vagus jugular veni, and caroud aftery. Peripheral section is more diagerous than intracranial section because of the promistry of the vagus through the promistry of the vagus that salways been injured when section or nivibation of the glosophian paged nerve in the neck has been all the nerve of their which is impossible when intercarnial section is one of the nerve of their which is impossible when intercarnial section is done.

Unitateral involvement of the trigeminal nerve area alone allows either alcohol injection or partial or total intracranial section of the sensory root Patients with rapidly growing lessons and a short life expectacy are best treated by alcohol injections whereas those with lessons of longer duration are more effectively relieved by intracranial section

When both the fifth and minth nerves are involved the only logical course is intracranial division of both nerves. This must be done by the cerebellar route since the minth nerve is not approachable through the temporal route. The cerebellar route prevents interference with the ocular and motor branches such as occurs in the Hartley Krause method.

Bilateral section of the fifth sensory roots has been performed for bilateral trugeminal neuralgia but the additional ection of both mith nerves might be impractical because of the loss of the gag refex. Biateral alcobol injection of the intermy manillary nerves is precluded horsains parally as of both motor branches of the tregumps and and a wallowing impossible. Drusson of either the muth or the fifth nerve or of both on one side so of advantage also in permitting the application of radount to madagasal tessons without pain within manchately or subsequently. E. S. Patry MID.

SPINAL CORD AND ITS COVERINGS

Fairbrother R W The Significance of Coccal Organisms in Experimental Pollomyelitis J 1 ath & Bacteriol 1010 XXIII 435

Hurst E W The Histology of Experimental Pollomyelitis J Path & Bacteriol 1929 XXXI

LAISMOTHER EPOTES investigations the purpose of which was to determine the engine and ristion shap to poliomy clists of the coccal organisms found in various itsues of monkeys examined in different has been sought by many intestigators over a period of more than two denders Some have concluded that the cocc isolated have a definite that they are merely terminal invaders or air that they are merely terminal invaders or air that they are merely terminal invaders or air the technical procedures.

the technical procedures
In the authors studies three virus strains were
used—a weak an active and a very powerful
strain—all obtained from the Rockeleller Institute
The fully monkeys used were divided into the follow
ing four groups: (r) those extained during the
initial stage of the disease (s) those extained during
and (a) healthy animals and animals infering from
infections other than poliomyelitis which were
used as control were

The author concludes that the coen discovered in the animals with poliomyelitis were terminal invaders or air borne contaminants as they were found with about the same frequency under the same conditions in the control animals. The

characteristics of these cocci are described in detail.
Howar discusses the histology of poliomyelius.
He states that the condition results in inflammatory lesions in all of the tissues of the nervous system, but involves the anterior born cells most constantly

The chef changes occurring in all of the tissues during the stage of advancing paralysis are (a) pervisional rinditration of both large and small vends (a) diffuse tissue inditration and (3) neri-cell destruction. The cellular reactions are described in detail especial emphasis being placed on the rôle played by the polymorphonuclear leucocytes and the microglia.

In Hurst's opinion the changes in the nerve cells are due to the direct action of the virus and not to the accompanying interstitial inflammation Meningitis is not necessarily a feature of the steems and often is not marked in the early stages discussed in the writings of antiquity. This knowl edge was subsequently lost, but was regained by the surgeons of the middle ages Drainage of the pus by nuncture was again recommended in the middle of the last century and following the introduction of antisensis drainage by incision was performed The wide opening of the diseased pleural cavity by the resection of several ribs as recom mended by franz Koenig came to be preferred to the nermanent drunge recommended by Buelau The next change was brought about by the influenza enidenies narticularly the epidemic of 1918-1919 in which the mortality in cases of empyema treated by rib resection rose to go per cent. It was learned that the deaths were due not to the basic disease but to the sudden removal of the pus which did not allow time for the proper compensators changes in the thorax Adaptation of the vascular system was particularly difficult in empyema of the right side The media-tinum was pushed over to the other side and mediastinal fluttering occurred. The vena cava was compressed and the heart was unable to respond properly to the sudden changes

The importance of greater care in wide opening of the pleural cavity by rib resection was emphasized also by experience in suppurative pleurisy due to tuberculosis While it was already known that suppurative tuberculous pleuris; should not be treated by wide opening of the pleura it was discovered that the closed method is advisable also in empyema associated with a mixed infection. More over the change from a purely anatomical view point to a more functional viewpoint led to the conclusion that emprema is not to be regarded as an ordinary abscess which requires as rapid drainage as possible

Sauerbruch next considered briefly the etiology of emprema discussing the primary form and the forms due to extension nictastasis and infectious diseases

He stated that neither the type of the bacteria nor the character of the exudate determines the prognosis although serous empyema is always dangerous The clinical outlook depends first upon the type and severity of the basic disease. Toxic influences however may produce an independent climical picture A great deal depends upon the time at which the empy ema developed A parapheumonic empsema is more dangerous than a metapheumonic empyema The former is particularly serious when at develops at the height of the illness as the result of the breaking through of a cortical focus. In general it may be said that the prognosis depends upon the type of the basic disease the time at which the emptema developed general factors influencing the patient and the disease the maintenance of thoracic equilibrium and the patient's constitution and beredity

It is necessary to differentiate between total emptema and partial emptema (apical basal, mediastinal and interlobar) When pus accumu ates suddenly there is danger of perforation of a

the right side established on the seventeenth day. brought about marked improvement, but roentgen examination showed that numerous adhesions pre vented the lung from collapsing completely On the twenty sixth day phrenicectomy was performed on the right side but the result was insignificant Fifteen days later pneumothorax was again tried but the effect was so unfavorable that the gas was at once withdrawn. It appeared that the collapse of the lung favored the progress of the gangrene Next an attempt at antiseptic treatment by the pleural route was made but was followed by suppuration of the pleura Thoracotoms with closed thorax, by Delbet's method performed with the object of providing drainage brought some relief Five months after the first examination a thora

coplasty was carried out in two stages It the first operation the first five ribs were resected and a month later the remaining six were removed. Im provement was then rapid I en weeks after the operation the general condition was excellent and the cure complete except for a small pieural fistula Fluoroscopic examination showed considerable cleva tion of the diaphragm on the right side and obscurits of the entire hemitborax which was greatly flattened

GREGOIRE who presented Fruchaud's report to the Society stated that in the treatment of acute pulmonary gangrene two surgical method are in use pneumotomy and pleuroparicial detachment When the cavity is large when drainage by way of the bronchi is insufficient and when the presence of large masses of Langrenous tissue seems probable pneumotomy in spite of its dangers is the opera tion indicated. The chief danger is ha morrhage oc curring a few days after operation. Licot inspects the cavity with the aid of a mirror attached to his forehead and compresses and sutures the vessels he finds I leuroparietal detachment must be done only when the gangrenous focus is single and small and when easy evacuation by way of the bronchi is as sured In the subscute and chronic forms the object of surgery is not the drainage of the eavity but com pletion of the process of retraction and sclerosis in the pulmonary lobe involved Pneumotomy is not indicated as it would be impossible to open and drain all the small cavities present. Surgery can act against these multiple lesions only indirectly. Phrenicectomy is indicated only when the lower part of the lung is affected and the mobility of the diaphrag matic dome is practically intact. I leuroparietal detachment is of value only when the lesion is limited Partial thoracectomy (two or three ribs) has been done a few times Fruchaud's case appears to be the first one of total thoracectomy Bronchopneumoma of the opposite lung is particularly to be feared following this operation whether it is partial or total LIORENCE A CARPENTER

Sauerbruch Empyema (Brusifellesterungen) 53 Tag d dentsch Ges f Chir Berlin 1929

Sauerbruch called attention to the fact that the treatment of enip) ema by incision of the thorax was

SURGERY OF THE CHEST

CHEST WALL AND BREAST

Trinca A J Fat Necrosis of the Female Breast J College Surg Amtralagia 17 9 11 21

The author report five cases of mammary fat necrosis and believes that it is of more frequent occurrence than is indicated by the number of reported cases

From the cases cited it appears that fat necross is not necessity as andependent levion in the breast and trauma is not an essential etiological factor. The accidental discovery of the isson in one case and its discovery after deliberate search in other cases of breast carrinom suggest the possibility that hyperplasa of embryonical cells plays a part in the delense mechanism against the cancer cell. The delense mechanism against the cancer cell. The which there is a brevour is indicated in cases in which there is a brevour is indicated in cases in which there is a brevour is indicated in case in which there is a brevour is not carried in case in which there is a brevour is not carried in case in which there is a brevour is not carried in the case of the carried of the carried of a certain of the carried in the case of the cas

TRACHEA LUNGS, AND PLEURA

Fdwards A T The Surgicul Technique of Pul monary Abscess Bril Jurg 1029 xu 102 Abscess of the lung is due to a localized infection resulting from (r) an attack of lobar meumons or

bronchopniumonin (2) an infected embolus or (3)

the inhalation of infected material Effective surgical treatment requires careful localization of the abscess. Roenigenograms should be taken in the anieropostenor lateral and oblique positions. In some cases steroscopic views may be

of great and Abscesses following pneumons or the longment of an embolus are generally similar in their to-entgene arrange and a state of the state o

bronchioles The rocateen directors is aided by the introduction of lipiodol into the bronchial tree.

In a certain percentage of cases the condition will

in a certain percentage to the state of the celar up entirely without operative treatment. Ill infective foci in the upper air passages should be eliminated. Natural drainage should be favored by posture. The constant presence of spirochrtes in

the pus warrants the admini tration of an arsenical preparation. If there is no improvement in spite of

these measures surgical drainage should be natified. Before operation ever and shull be utilized to improve the patients condition and on the day of operation eitors should be made to obtain source that the operation of the abscess by postural drainage. Local in filtration an exhibition as methesis of choice. It should be preceded by the administration of morthing attorping and bycome. When general are thesis is induced some form of positive pressure should be used.

Viscoses arising in the upper lobes are best approached through an upper auditur measin those of the middle right lobe through an anterior incision and those of the lower lobes through a poterior incision. In the authors stehnique a rib orietivate abscess is resected subprenostally through a superficial vertical location. If the pleura is adherent in aspirating needle is married into the abscess and the trict colarged with a dull red cuttery is soft willed quite is then inserted and the wound soft in the love is then inserted and the wound in the colarged with a dull red cuttery is soft willed quite is then inserted and the wound of the colarged with a dull red cuttery.

closed loasely

If there are no adhesions between the pleural layers an rodoform graue pack is inserted between the indurated area of the lung and the superficial structures or the two favers are striched together the suturus betting praced through the firm outside ussues and opening and drainage of the absenses is delayed for from six to exist that says

Drainage is minitained until the quantity of sputum is needingible and the cavity has been obliterated except for the drainage tract. If secondary bronchi ectasis occurs methods ranging from phrenic studies on to complete thorscondary must be instituted.

CENRUL COLLECT WA

Fruchaud II. Pulmonary Cangrene Treated Sue crassively by Pneumorhorax Threnfectomy Obeothorax and Thoracoplasty Cure (Can gene pulmonante traitée successivement par préd mothorax phrénectomie of oblivars thoracoplas ite guérasoa) Bull et mém vo nat de chir 1920 h 644

A man twent five years of age who had oughed for two vers but an otherwise, well was see glead deafe with dispances accomputed by grave general symptoms. Supply afterward this term reture rose to 30 degree C and he expe torated a large quantry of feetlap or containing macrobic organisms of the Veillon type. Auxiliation revealed condensatament and how of a gray shitdow more desting our roofs, except pag the lower half of that long. Seropherap 'United's accomes and interture of

allium were used without result Pneumothorax on

O

according to the Iseliu von Jahn method. After removal of the put the expansion of the lung as stimular to the put the paramount of the lung as stimular to the put the paramount of two sets of statistics. Of naty three patients with influental empyems as who were operated upon under increased pressure, fifty seven were cured without a fistula and only six (og per cent) died, whereas of thirty two patients operated upon for the same condition without the use of increased pressure, seventien (5) aper cent) died. If a small cavity remains closed dramage may the helpful. A hydraulie system results as the lung re expands. In some cases other aids may be used to assist the expansion of the lung.

Interlobar and mediastinal empsemata represent special types. They often suggest pulmonary aboses. Operation must be done early and the pus danared through a wide opening. If the empsema is peripheral the operation is performed easily. If it is not peripheral the ling must be penetrated with the cautery until the focus of pus is reached. When there are contra indications to this procedure, prepheural plugging may be considered. Empsemata at the bully may be operated upon to one or two stages.

under increased pressure

In spite of the measures described cavities remain in from 18 to 20 per cent of cases of empyema. Often faulty after care is responsible. Sometimes con tinued suppuration is caused by a drain or gauze left hehind The plastic operation recommended for such cases by Schede is a major procedure with a mortality of from 25 to 30 per cent Therefore another attempt should always be made with the Perthes Hartert method If this is unsuccessful, a paravertebral extrapleural rib resection such as gives good results in pulmonary tuberculosis may be done and followed after two or three weeks by an intrapleural operation in which a flap is opened in the pleura and the adhesions are severed Follow ing this treatment the lung expands quite well Phrenicotomy is of assistance Scolioses and deform ities such as occur after the Schede operation are pre To avoid the large plastic operation obliteration of the pleural cavity with plugs has been recommended. In Sauerbruch's opinion it is better to use living plastic material for this purpose. The decortication method of Delorme has also been recommended hut is not favored in Germany Sauerhruch objects to it because of the associated danger of embolism hamorrhage and exacerbation of old processes

Sauchruch discussed also emptem developing after artificial pneumothors. He stated that in every case there is danger that the harmless counds to many be suddenly changed by influenza or angua into a severe mixed infection empyema. The extra into a severe mixed infection empyema. The extra condition also reducing the mortality from the theory of the condition also reducing the mortality of the condition also reducing the mortality of the permanent cure have been sexched to at the permanent cure have been sexched to at the

In conclusion, Sauerbruch presented a large num her of patients who had been treated by the various

procedures described and showed the roentgeno grams made in their examination

In the discussion of this report, SCHOENBAUER (Vienna) described an apparatus for closed drainage recommended by Demel It consists of two heat trocars with lateral openings which form a circuit in the pleural cavity and are connected by a tube to a flask for aspiration of the pus In sixten cases treated in the past year and a half this apparatus was found of great value.

was sound of great value reported on sixty one cases of empress and shall said chalters ranging cases of empress and said chalters and chalter were only these deaths, a mortality of 5 per cent In general, Toenus favors aspiration. In only a few cases has he supplemented it with irrigation. Two of the deaths in the cases reported were those of children two, cars of age and one was that of a child

four years of age HELLER (Leipzig) discussed the closed method of treating acute empyema. For the past four years he has opened the pleural cavity by rib resection in the usual way and after removing the pus has closed it again and then inserted a dramage tube the size of a lead pencil through another incision according to the method of Iselin The drainage tube was con nected with a flask containing rivanol. No attempt at aspiration was made As a tule the flusk ins placed at the level of the dramage opening, but sometimes it was raised or lowered. In this way complete drainage of the pus was achieved and later with the use of differential pressure under manometrie control, good expansion of the lung was obtained In two cases a secondary pneumo thorax developed In fifty nine, the lung became so expanded that there was absence of air between it and the chest wall. The procedure was used in eighty one cases with a mortality of 24 per cent The average duration of the treatment was two months. In four cases a moderate thoracoplasty was found necessary

MAKAI (Buddpest) discussed autopyotherapy in amplema. He recommended the subcutaneous method per manyon and the recommended the subcutaneous method from the first per manyon and the subcutaneous method to be a com from there to me times daily for from the time to ten day. The method is effective and not dangerous On rare occasions an abscess develops at dangerous On rare occasions and success the subcutaneous data method to the subcutaneous of the subcutaneous data was the subcutaneous data method to the subcutaneous data must be excusted by punctions under the subcutaneous data daton by closed aspiration is necessary. These mechanical measures must not he used too early or too late.

HOSPIANN (Freburg) discussed the question of muted infection in tuberculous total empyema and the results of the combined primary parawretheral and parasternal rin resection. He regards the procedures recommended heretolore for total empyema with muted infection as too radical. In the large plastic operation at its difficult to close the cavity

bronchus with consequent asphyxiation. The site of perforation may close again or a pyopneumothorax may develop In some cases the pus in the pleural cavity may break through into the pericardium or the peritoneal cavity Burrowing abscesses may penetrate into the psoas muscle Subphrenic ab scesses may also be formed. The pus may per forate the chest wall with the formation of an em pyema necessitatis When the pus is on the left side and encapsulated a pulsating empyema may be produced by the transmission of the pulsation of the aorta

The chinical picture is very varied, depending upon the degree of toxemia. The signs include a high fever, chills nervous manifestations tachycar dia an anyious facial expression and evanosis. The more quickly the exudate accumulates the more severe the symptoms. In the presence of pulmonary gangrene the manifestations of the empyema are in the background. The exudate may exert a favorable effect by its pressure on the focus unless it is itself due to the perforation of a gangrenous focus. The symptoms may be as stormy as those of a perfora tion peritonitis. Emprema developing in infancy or early childhood is particularly serious on account of the mobility of the mediastinum in the young and the numerous foci of bronehopneumonia. In such cases especially, ennservative treatment is indicated After aspiration care must be taken to assure efficient respiration as otherwise chronic emplema results which frequently is not diagnosed. As a rule this condition is associated with a subfehrile tempera ture Sauerbruch has repeatedly discovered such undiagnosed chronic empyemata in patients under treatment in annatoria for pulmonary disease

In general the diagnosis of empyema is easy and enn be confirmed by the roentgenogram. In inter lobar empyema roentgen examination is especially necessary as only by this means can the diagnosis be established with certainty Interlobar emprema is easily confused with tumors and mediastinal empyema with cysts especially cysts having puru lent contents. The treatment of such cysts should

be multiple extirpation Particularly dangerous in cases of empyema is the disturbance of intrathoracic equilibrium In general the equilibrium is maintained by pulmonary inspiration and the expansion of the chest wall. The effect of pulmonary inspiration is often erroneously designated as the negative pressure of the thoracie cavity A negative pressure (up to 8 mm) is present only in the mediastinal cavity. The thoracic cavity constitutes a single structure. Variations in pressure on one side become apparent also on the other side If the volume of the lungs becomes smaller the equilibrium as long as it is able to do so Two factors with an unfavorable effect are the mability to reestablish thoracic equilibrium and pneumonic con solidation of the lung causing a dimmution in pul monary inspiration The determining factor is not the size of the exudate but the sum of the phenomena

occurring in the lung and thoracic cavity, including the diaphragm. The compensatory power of the sound side cannot be developed when the media to num is pulled over with kinking of the vessels and injury of the heart. The great importance of the mediastinum and the function of the chest and dia phragm is therefore manifest. The regulation of the thoracic equilibrium or intrathoracic pressure relationships is comparable to that of the intracranial

pressure The treatment of empyema has three objects (1) the removal of the pus (2) the correction of the pathological thoracic pressure and (3) expansion of the lung The physician must decide whether drain age of the pus or correction of the pathological pressure is the more important. In a case of severe postteaumatic pleural empyema cited by Sauer bruch wide drainage was the more important, whereas in a case of metapneumonic empyema without toxemia the relief of the intrathoracie pressure by puncture for removal of the pus was indi cated as the primary procedure. Often the removal of even a small quantity of pus results in rapid im provement in the circulatory emphisions and resorption

In the presence of a severe general infection with a simultaneous physical effect of the collection of pus the decision as to treatment is more difficult In such cases the physician must study the various symptoms carefully and estimate the patient's strength Occasionally, rapid emptying of the pus is the chief indication. In some cases aspiration and the administration of morphine will he the proper procedure whereas in others prompt rib resection is necessary Frequently it is possible to cure even a purulent exudate with one aspiration in other ca es

multiple aspirations are necessary When persistent fever indicates the continued formation of pus the question arises as to whether it is best to use the open or closed method of drain age Sauerhruch prefers closed dramage although rib resection is often necessary afterward. He re views briefly the Buelau Perthes and Perthes Ifartert procedures He u.es the method of Isehn in which exact regulation is possible by raising or lowering the flask. He warns against forcible expansion of the lung stating that the lung should expand of stself. Lerthes also has warned against too strong suction If the drainage treatment is not

auccessful resection is necessary Sanerbruch described the technique of the latter procedure. He stated that it is not always advisable to perform the operation at the lowest point. In general he resects the seventh to minth ribs in the posterior axillary line The operation is facilitated by the use of increased pressure. The increase need be only alight usually from 3 to 5 mm Hg is sufficient, but sometimes from 7 to 10 mm is neces sary The increased pressure facilitates the explora tion of the pleural cavity and the removal of coarse masses of fibrin After the operation an air tight valve fike handage is applied and a drain is inserted

tube, it will not cut the throat and the tube will not be bitten through

When a benign stricture cannot be dilated the pa tient must choose between going through life with a gastrostomy and undergoing a serious operation For strictures situated high up an antethoracie orsoph agus may be made or a transthoracic operation may be performed. The latter is much the more danger ous and therefore is to be rejected. There is at Lev. den a man with an antethoracic resophagus which was made by Lexer's method eleven years ago The patient swallowed by drochloric acid and developed a stricture a few centimeters above the diaphragm As the stricture could not be dilated a short loop of small intestine was isolated and still connected with its mesenteric vessels was sutured to the stomach and the skin, a gastrostomy being done by Tavel a method. A skin tube was then constructed and an opening for the esophagus made in the neck. The two tubes were connected by small plastic procedures perhaps the most difficult part of the treatment. The patient is now a servant in a hospital and is able to est the same food as normal persons. Solid food enters the stomach in a few minutes

a primary phrenic nerve avulsion, usually on one side and involving the lower lobe. It this does not effect a cure he performs a thoracoplasty with removal of the periosteum and intercostal muscles. The next stage may consist in extripation of the lobe one along destruction by horizing. Suserbruch has one along destruction by horizing Suserbruch has one of the suserbruch and the surface of the remove the lobe. Graham a method of huming the lobe out is associated with rather serious risk of air

In the treatment of bronchiectasis the author does

embolsm and hemorrhage. Resection of the lobe in the usual way carries with it great danger from shock. After a fatality form shock and the architecture of a permisent bronchial fistula. After a fatality from shock and hemorrhage following lobectom: the author devised a procedure intermediate behiven thoracophasty and lobectomy viz intrapleural plugging of the pleura after liberation of the lobe as far as possible back to its root. This measure may give a complete and lasting cure by causing compression of the diseased lobe. It is associated with minimal danger and is fire from the disagreeable complication of bronchial fistula. Roent genograms made after the procedure show that the upper blow is not collapsed and continues to function

If this treatment fails to effect a cure because the lobe is too indurated to be compressed the last stage -which until recently had a mortality of so per cent-is no longer very serious If the plugs are well placed around the root of the lobe and the lobe will not collapse the surgeon will find on removing the plugs that the lobe forms a more or less pedicled structure in the closed pleural cavity around it. It can he removed without shock by slow elastic stric ture of the root This can be done in the ward with out causing pain The elastic tube is tightened every day The choked lobe undergoes necrosis and falls off or can be removed by section of necrotic threads in about a fortnight Only very small bronchial fis tulæ appear The after treatment consists in loose plugging of the cavity with gauze. The cavity be comes progressively smaller and at last the wound is closed possibly without a bronchial fistula

JOHN J MALONEY M D

Even the Sauerbruch operation requires many secondary interventions. Hosemann suggested 2 combination of the Sauerbruch paravertebral rib resection with a parasternal procedure. In the sex vears in which he has used this treatment his results have been uniformly good. He has performed the operation seven times without a death. One patient died after six months from amyloid disease because the operation was performed too late

STETTINES (Z)

ESOPHAGUS AND MEDIASTINUM

Saint J II Surgers of the Esophagus Sure 1929 xit 53

An outline of the development of surgery of the resonhagus is given with a comprehensive survey of the literature on the subject up to the end of 1927

The problems which have rendered surgical procedures in this sphere so difficult and still remain to be solved are discussed. They are based on the anatomical structure and relationship of the resoph agus and the risk of fatal infection of the picura and the cellular tissue of the neck and mediastinum The numerous operations devised and performed for the exterpation of resophageal carcinoma have

resulted in an appalling mortality It is pointed out that ersophageal carcinomata are highly malignant, that they metastasize readily and that by the time they give rise to symptoms they have usually spread beyond the limits of sur

gical removal The various methods used for the plastic forma tion of a new irrophagus in cases of benign cicatricial stricture believed to be impermeable are described In the cases reported in the literature the mortality was 20 per cent Several operations are necessary and require months for their completion. Moreover their completion is by no means assured I or these reasons plastic operations are undesirable proce dures to be avoided by early and adequate dilata tion followed by further dilatation at subsequent intervals

It appears that plastic operations have been un dertaken unjustifiably in many cases inability to pass the smallest sound being taken as the indication ol impermeability. In nearly all such cases a swal lowed salk thread wall pass through the stricture and

can be used as a guide for sounds Pharyngeal diverticula are considered to be true sacculi, and traction pouches true diverticula The latter rarely require surgical treatment. The removal of pharyngeal saccule by the two stage method is associated with a lower mortality than their removal by the one stage operation

A method of suture which has given satisfactors results is described for the end to end anastomosis of a divided resophagus. The sustability of this method as a means of anastomosing the two cut ends of the esophagus after a portion of it has been resected is being investigated

Zaalier J II Surgery of the (Esophagus and Lungs lancel 1929 certi 909

The author reviews briefly the mechanism of pour tive pressure and sthesia and describes the apparatus used in his chine at I enden

The apparatus consists of two extinders one con taining oxygen and the other nitrous oxide with a Pressure regulator and Lasometer From the colin ders the gases pass through a water bottle which can be heated by electricity and thence they pass either through an ether bottle or directly to the mask. The quantity of ether is regulated by a simple pressure screw which parrows the direct lube to a greater or less degree From the mask a rubber tube passes to a mater ventilator which is hermetically sealed and thence a wide flexible tube conveys the gases out of the room I here is no an esthelic vapor in the oper ating theater

The author describes his work in surgery of the esophagus In one case of carrinonia of the resoph agus which he reports in detail he made a thoracic ecsophagostoms and a eastrostoms and connected them together with a bottle and bellows so that the prisent could pump food into the stomach. In two cases he performed a transpleural thoracotomy under

positive pressure an esthesia Zaaner believes that in cardio-nasm there is a paretic condition of the muscle. On the basis of his theory that eardiospasm to only the late stage of many against disordered function due to anatomical displacement he advocates feeding the patient for several weeks through a stomach tube and washing out the exophagus morning and evening with a weak solution of sales lie or boric acid to heal the infimma tion and reduce the dilutation by placing the esoph agus at rest. He treated a man of sixty-one years in this was for about air months. Five sears later the Patient was still free from all a sonhageal symptoms the \ ray which previously hid shown a greatly dilated and slowly emptying gullet revealed scarcely any dilatation and food passed promptly into the stomach. The patient died of a different disease

In a case of cardio-pasm ilue to gas in the stomach Laarjer made a gastrostom; opening to allow the gas to escape by means of a valve arrangement. Com plete relief of the symptoms resulted

Organic stricture of the ecophagus can usually be dilated In Anglo-Saxon countries the dilatation is done by Plummer's method in which the patient swallows a sell, thread and when this has passed into the intestine so that a purchase can be obtained it is stretched taut and a perforated sound is pushed over at through the stricture Zaujer customarily treats cases of organic stricture by Van Hacker's method picking the smallowed thread out through a gas trostomy and drawing soft rubber tubes through by means of it The thread must be left in for a month or more Laaner says that a thread whether it is of sith or of cotton gives the patient a cutting sensation in the throat If a thin rubber tube is used this sensa tion will be prevented but the patient will be apt to bite through the tube If a thread is placed in the

of a lon itudinal and a transverse incession which courses the wear and tear of years of tensor on the scar line to fall on both recti muscles instead of on one. The strain of abdominal pressure is exerted on the scar in three different inclusors had been made. The incession lessens the incidence of the star of the scar is the incidence of the scar in the control of the scar in the scar

GASTRO INTESTINAL TRACT

Buechner F, Siebert P and Molfoy P I Ex perimentally Produced Acute Peptic Elects of the Ante Stomach of the Rat (Uebet experimentell execute akute pertuche Geschwaredes Ratten vormagens) Beit palk Anat 1928 Izru 320

The acute ulcre of the stomach and duodenum decleops with stratified sloughing and severa acute inflammation of the gastic or duodenal wall and not with the histodograft picture of hamorrhagic or anamientifaction. As a rule acute ecosion and scutter have a common cause. Insolar as the authors consider the typical scutte gastroduodenal ulcer as an inflammatory formstion they confirm the well known find has of kongettey but in contrast to known find has of kongettey but in contrast to achieve the confirmation in the microsa membrane to be a severe mujure of the previously histography and all produced by the facility injure itself and con assing in a slou, hing due to the immediate growned action of the hydrochloric acid of the gastic paice.

To prove their theory they extract out expenients on rats. The assumals were stayed for twents four hours and their injected with oo for men of histamin per iso gm of body neight. I few of the rats received it is to jection only once a few received it is too a day and a few were impected control to the co

In 33 per cent of the animals ulcers were found in the ante stomach but ucver in the glandular stomach Of sixty five animals which were subjected only to starvation or were examined at the height of the digestion or rerested only 0 5 mgm of atroom

such lesions were found in 6 per rent

In other experiments, continued for from fourters to seventeen days in which oo om man of histman was given twice every second day and the animals were straved, errosion, or uleces were found in the ante stomach of 80 per cent of the animals. When the same amount of histman was given once every second day and the animals were started lessons were found in 60 per cent and when the animals were started every second day and no histman; was given the fesions were found in a per ecut.

The two areas of the ante stomach attacked roost frequently were the region of the border of the safe stomach and the glandular stomach, and the dome

of the aute stomach In the experiments of one days duration only one or two ulcers were found, but in the experiments of longer duration the ulcers were more numerous sometimes as many as two dozon being formed. The ulcerating defects were sometiment of comments of the control of the contro

Microscopically the development of acute erosions could be seen very clearly. In the central portion the e was at first a necrosis with leucocytic in filtration of this portion and the submucosa The surrounding region should severe adema transition stages from these formations up to acute ulcers were present. The uppermost layer of the acute ulcers consisted of nectatic masses then fol lowed a sometimes narrow and sometimes wide fayer of densely packed neutrophile leucocytes, which were present here and there also in the necrotic region. Not rarely there was in addition to this nall of leucocytes a zone of fibrinoid eachar formation. In many instances abundant fungi and hacteria of all kinds were found on the surface of the They were always limited to the zone of ulcers

Decrosis

In the authors opinion these experiments show that an attificially produced disturbance of the correlation between the ga tric juice and gastric wall led to the development of acute peptic ulcers With regard to the recent experiments on ulcer carned out by Westphal Murata Hayashi and Nakashima the conclusion is drawn that in experiments with pharmacological influences upon the vegetative nervous system the ulcers are similarly produced by an increase in the secret on The same theory is advanced regarding experiments in which a surgical intervention on the vegetative nervous system was undertaken Exclusion of the pylorus by the method of von Eiselsberg causes a disturbance of the correlation between the gastric juice and gastric wall and thereby favors ulcer formation. In a similar may the tesults of the experiments of Loennecke von der Huetten Leppich Bickel. Mann and Williamson, and Winkelbauer and Star innger are explained KUNIETZNY (Z)

Lochr W The Importance of Amerobic Bucilli In the Peritomits Due to the Peritoration of Gastric and Duodenal Uters (Ueber die Bedru Lang der amaroben Hacillon fuer die Peritorationsperi Lonito beim Ulcus ventruik et duoden) Deutsche Zische f Chir 19 9 centy 103

Nothing is to be found in the literature on the importance of anaerobes in perforation personal and the rôle they play as infective agents. The indiquity of the anaerobe health producing gas cedema (as nell as the torun forming anaerobes the bacillus boundams and terams bacillus land especially are constainly gaining in looks indicate that they are constainly gaining in looks in the second of gas cedima or gas philegion of the stomach is on record. All of the reports on these conditions have been based on

SURGERY OF THE ABDOMEN

ABDOMINAL WALL AND PERITONEUM

Gižickij A The Silding Hernia I roblem (Zur Frage der Gleutbrueche) Nor Chir 1925 vu 3

The author reviews the literature on shing berma and reports occase which were clavosered among 285 cases of herma treated surgically All 5 shings herma were right aded inquisal formus mades. In 2 case only the bladder was found in the hermal sac of the continued the count and appendix The continued was suspected hefore operation in the continued the

From the statistics of a large number of reports of bernotomes, which are presented by the author in tabular form, it is seen that the shding type of bernat is found in 3 per cent of such inter-retinons. The author uses the term sliding herma to designate all herms, of the female genutian and all herms of the female genutian and all herms of the abdominal wall and lumbar region which contain portions of the large intestine the utnary

bladder or a kidney

A pre-operative diagnosis of sliding herma is frequently impossible. The discovery during operation of masses of fatty tissue on the walls of the hermal sac and non transparent thickened walls of the supposed sac of the hermat should suggest the condition. The operative mortality of sliding hermat is hermat is the

The operative mortality of sliding herma is he tween a and 8 per cent. The greatest danger is un observed injury to the bladder or intestines. There fore the isolation and opening up of such a hermat aca should be done with the greatest care.

N Persov (2)

Wohlgemuth K and Joil A Artificially induced Inquinal Hernize (Artificialle Leistenbruerhe) Arch f klin Chir 1928 cli, 406

Artificially induced inguinal hernia is not common in Germany In Russia, under the former regime. men with hernia were freed from military service Russian soldiers therefore frequently induced bernie The first induced hernic were recorded to 1888 and were found in Polish recruits Later experiments were performed on cadavers to determine how such hermin were caused but more information was ob tained from the patients themselves The 'opera tors were usually persons who had previously served as male nurses. The operation was done with a finger or instrument which was introduced into the inguinal canal and then rotated The pain caused by this procedure was so severe that frequently the patient became unconscious After the operation the patient was urged to get up and jump, cough or strain

The authors have operated on twenty four patients with artificial hermize Most of the hermize were of the direct type. In some cases there was scrotal horan. As a rule all of the tassus attention and the vicinity of the horans were markedly sorred. The external inguish ring was usually destroned. The horans as had a very characteristic control form. The various structures of the spermatic ord were separated. The was deferens was frequently completely isolated from the surrounding vessels.

Because of the adhesions operation for the re pair of an artificially induced herma is much more difficult than the usual operation and at times must be carried out in an atypical manner Decess [2]

Mason J T A New Abdominal Incision And Surg. 1070 111, 120

The new abdominal incision is described as follows

Step 1 The incision is begun just to the left and helow the ensistem cartilize and carried down ward through the skin and fat to the median of the fastac covering the left rectues muscle. It is extended downward along the rectue muscle within 2 or 3 cm of the umbilitiest and those carried within 2 or 3 cm of the umbilitiest and those carried and downward along that muscle for a distance of from 2 to 6 cm.

Step * The anterior surface of the left rectus muscle is cleared of fat. The fascia is also cleared well in the transverse and right rectus inclusion. Step 3 The fascia on the inner third of the felt rectus muscle is split the length of the incison A transverse incision is then made from one rectus.

muscle to the other and the fascia on the inner third of the right rectus muscle is opened

Step 4 The muscles are rolled outward and the peritoneum is opened behind the feft rectus muscle

perstoneum is opened behind the left rectus muscle A transverse incision through the perstoneum just above the umbilicus completes the incision. This gives amplie exposure for any operation in the upper part of the abdomen and allows the operator to reach and remove a retrocycal appendix in the lower right quadration.

In the dosure of the incision the patient is placed in a feared position The transverse into its closed before the pentioneum 1 sutured The sature is done after the manner of the Mayo repair of umbulcal herma the upper and lower hope long mulnicated securely with two or three matters stuties. The approximation of this part of the would is facilitated by the flexed position advocated wound is then closed separately. The muclear action is the closed separately. The muclear earliered to drop back in their sheaths and the apponenties are sutured in the usual manner. This mission gives greater exposure than any

other It can be closed easily It is a combination

nourinary symptoms On the third day a fluoroscopie examination was made (a procedure which Mocquot who reported the case for Le Balle condemns as being associated with too great risk in the presence of intestinal obstruction) It showed stoppage of evacuation from the transverse colon and proved that the descending colon was interposed between the tumor and the anterior abdominal wall. The drig nosis of retroperatoneal cyst was confirmed

At laparotomy the cost was found to be the size of an adult head. It was punctured and 3 hters of apparently infected dark yellow fluid with a foul odor were evacuated The orace of the neck of the cyst was brought up to the laparotomy opening and fistulization established extirpation of the cyst left being delayed until later on account of the patient s general condition and the distention of the veins on

the surface or the cyst

The cyst fluid contained a small amount of al bumin, urea chlorides and several kinds of baeteria There was probably accidental contamination. The patient was at this time in the third month of preg nancy but the pregnancy was not discovered until about a month later. Her condition improved and about nine weeks after the first operation the cyst was removed. It mea used as cm in length. Externally, no vascular pedicle was seen simply a few adhesions. The patient then in the fifth month of pregnancy stood the operation well. The pregnancy was uninterrupted and a normal child was delivered at term

The question of the origin of the cost remains uncertain From the microscopic examination of the cyst walls Le Balle concluded that it was of wolffian origin but Mocquot points out that a tissue analo gous to renal that e was found in the wall. The kidney did not come into view at any time during the

operation. FLORENCE A CARPENTER

Nordentoft J Roentgen Examination and Conservative Non Surgical Disinvagination of Acute Intussusception in Infants under Roent gen Ray Control (but I examen radiologique et la désinvagination conservatrice non-chirurgicale de l invagination nique des enfants sous le contrôle des rayons Roentgen) Acia chirurg Scand , 1020 buy

In four of five cases of acute intussusception in infants roentgen examination revealed a very char acteristic picture of the condition similar to that found in chronic invagination in adults viz arrest of the harrom enema limited by a regular concave line with the formation of a clear convex zone curv ing around the invaginature and a thin streak through its lumen

In three of the cases non operative reduction of the intussussception under the control of the roest gen rays was possible Following the reduction all of the colon the appendix and the loop of small in testine became filled with the burrum

In two cases operation was necessary One of the infants in which a simple ileal intussusception pro

gressed to an ileocolic intussusception, died The other which had a colocolic intussusception, was curred

Arntzen L and Helsted A Disinvagination un der Fluoroscopie Control of Acute Intestinal Invagination Occurring in Childhood (Desinva gination unter Roentgendurchleuchtung bei akuter Datmingagnation im Kindesalter) Acia chirurg Scand 1010 Ity 60

The author recommends that when acute intus susception is suspected in a child an opaque enema he given and if an intussusception is found in the colon an attempt he made to reduce it under fluoro scopic control

The article contains roentgenograms made of two nationts seven months and twelve years old respec tively which show the findings before, during, and after disinvalination

Gabrief W B A Case of Carcinoma of the Rectum Complicated by Enlarged Prostate Proc Roy See Med Land 1929 XXII 1329

The author reports the ease of a man sixty eight years of age who had had a rectal caneer for two years The growth had been considered inoperable because of co existing prostatic enlargement and an attack of urmary retention Examination revealed a fungating rectal tumor above the level of the prostate. The tumor felt movable. The prostate was greatly enlarged and on himanual examination could be felt above the pubes Laparotomy revealed the growth at the rectosy moidal juneture, freely movable and operable No glands were palpable and there were no metastases in the liver. A left inguinal colostomy was performed

After the operation acute retention of urine necessitated catheterization for two days Therefore suprapubic prostatectom, was done two weeks later under spinal angesthesia. After a stormy con valescence a perineal excision of the rectum was done one month later Good recovery resulted

Sections showed the growth in the bowel to be an adenocarcinoma and the prostatic condition to be a sample benign b) pertrophy Jony W Nevu M D

LIVER GALL BLADDER, PANCREAS, AND SPLEEN

Ramsey, T L Primary Hypernephroma of the Liver Inn Surg 1929 xc 41

Hypernephroma is essentially a tumor derived from cells with the same embryological origin as the cells of the adrenal cortex. The development of the anlagen of the adrenal in close embryological rela tionship to those of the Lidneys the ovaries the testales and epididymis the uterus the liver and their contiguous structures and vessels readily ex plains the frequent finding of adrenal cell rests in these usues According to Cobnheim s hypothesis. the development of tumors both benign and malig nant could easily occur from such inclusions

autopsy findings. No case of gas phlegmon of the stomach has yet heen diagnosed during life

From his studies Lochr concludes that on account of the abundant blood supply of the gastro intestinal tract the development of a gas phlegmon in this part of the body is impossible and cannot be produced experimentally The results of the few in vestigations that have been made regarding the presence of anaerohes in the healthy subject in gastritis in gastric ulcer and in carcinoma of the stomach are questionable as the technique used in the hacterial work was not free from objection. It is characteristic of all anaerobes to form among themselves and with acrobes very tenaciously ad hering symbioses which may hasically change the character of the partner in the combination and stubbornly resist separation. Moreover, a faulty bacteriological technique favors the formation of such symbioses. This accounts for the numerous re-

ports of new varieties of bacilli In his own studies Lochr used the method of Zensler which is the only one guaranteeing exact results in the examination and culture of anacrobic bacteria In Zeissler's institute fourteen stomachs affected by such conditions as gastric ulter gas tritis pentic ulcer of the jejunum, and carcinoma were studied with totally negative results as regards anactobic bacille. In only one case was an anacrobe discovered the bacillus multifermenticus these findings it is evident that the stomach does not offer the possibility of growth to the spores of nny of the anaërobes saming entrance lost. In culture media containing acid in an amount corresponding to the hydrochloric or lactic acid content of the stomach affected with ulcer or carcinoma and inoculated with the spores of all known anaerobes (from Zersslet a collection) there was not the slightest growth even under the most exact angerobic con ditions. In the stomach the growth of the anaerobes is inhibited by the absence of anaerobic conditions The anacrobes can only vegetate in the stomach in spore form and do not produce toxins (tetanus and hotulinus) In fact gastric tetanus is not known and even the feeding of botuliaus spores from selected toxin producing strains was found harmless to experimental animals Therefore in the peritomitis due to the perforation of a gastric or duodenal ulcer all that occurs is infection of the free peritoneal cavity with spores deprived of their capacity for to un production In exceedingly extensive animal experimentation Lochr demonstrated that large numbers of the spores of all types of anaerobse bacilli-only selected toxic strains from Zeissler's stocks were used-were unable to bring about in fection of the peritoneal cavity The spores were phagocytized and destroyed This process of phagocytosis could be demonstrated also histolog ically Even large numbers of spores were destroyed to the last vestige Afterafew months the abdominal cavity of the experimental animals showed even no traces of organization processes Practical ex perience with cases of perforated gastric after con

fittes these findings. There is no such condition as a gas phlegmon of the stomach or an annerobe peritoritis following the perforation of a gastine or duodenal ulcer. Moreover there is no such condition as tefanus of the stomach or bottlism developing in the stomach or in association with perforation peritorities.

Urrutis L Late Results in Perforated Gastroduodenal Ulcers fine Surg., 1929 xc 73

The author has operated upon thirty four cases of acute perforated gastroduodenal uters and his associates have operated upon eighteen. There were thelve gastric uters thirty nine duodenal uters and one perforating jejunal uter. The operative mortality was 176 per cent.

moreasity was 17 o per cent Turtuix concludes that in acute duodenal or gastine perforations a simple suture covers the vital midication with mininglins. It effects an absolute cure of the ulers in about 50 per cent of the cert if symptoms presist after surpressionary should be performed later. It many matrice entropically reported the principle of the certain of the certain reported to the proper operation is in dicated only in cases of subscule perforation. For the additional perforations is simple closure of the cure of reported perforations is simple closure of perforation and later perhaps a partial or subtotal gastrectiony with pyright resection is safer.

JOHN W NUZUM M D

When Le Balle find says the patient whose case is reported the exit was causing severe pain and distention of the left upper quadrant of the abdome Sight's symbous had been present for from auteen to eighteen months and a swelling had been noticed for six months. Constitution had set in with atternational pains but without womiting or emittant the pressure was 38 degrees C three days. The temperature was 38 degrees C.

persture was 38 d degrees C.

The east limits of the tumor were difficult to relabilish because of the phenomena of mestima distriction. One of the girls of the personal of the properties of the personal of the whole the wholes to one the felt it covered almost the whole flank and extended into the lumbar region below the limit of dullness was highly convert to lowest portion retings on a line draws between the things of the personal of the p

but there is no relation between cancer in general and choletithusis. There is probably a relationship between diabetes and gall stones. A therount and gall stones are related. The association is most marked with respect to the solitary cholesterol stone. There is perhaps some relationship between chonelations and gall stones but there is no relationship between choletichiass and grattic or doudenal ulcer atton. No association custs between choletichiass and inguinal of femoral forms as the control of the contr

The author concludes that local disturbances of an inflammatory nature are responsible for the formation of the facetted stones and general metabolic factors for the formation of the solitary cholesterol

stone

Ohnell If, and Lindblom k. Air Filled Bile Ducts in a Case of Fistula Between the Duo denum and the Common Bile Duet Ada ratio 1920 x 121

MANUEL E LICHTENSTEIN M D

The authors report a case of fistula between the duodenum and common bile duct in which on roent gen examination before operation the cystic duct and part of the gall bladder showed air rarefaction very distinctly. When the common duct was opened at operation gas escaped under strong pressure

Casovnikov P Four flundred and Eighteen Surgically Treated Cases of Rife Tract Disease (418 openente Faelle von Gallenwegeerkran kungen) Dos chir Arch 2018 xvi 365

The 413 cases of biliary tract disease reviewed by the author are divided into 3 groups (1) 16 cases of malignant growths (2) 2 cases of echinococcus disease and (3) 400 cases of inflammatory disease

The of cases of malupant growths included o of cartinom of the gall bladder and a of hiele duct cartinom of the gall bladder and a of hele duct cartinoma in which an exploratory laparotomy as done and 5 of carcinoma of the pancress and papills of vater in which an anastomosis was made between the gall bladder and stomach of duodenum. In the last group there were 3 postoperaine deaths. Then of the pattents with malupancy had gall stones:

In the cases of the so. and group there was gall bidder or common dux obstruction by chancoccus cysts. In the first case cholecystectomy chole doubtomy and dramage were done in the first stage of the operation and in chancoccus cyst of the liner was removed in the second stage. Death re sulted from cardiac westness. In the serond case in which the common duct was obstructed by an which the common duct was obstructed by an or which the common duct was obstructed by an experience of the common duct was obstructed by an experience of the common duct was obstructed by the control of the common duct was obstructed by the control of the case of the control of the case of the control of the case of t

In the bind group there were 40 cases of non calculous cholecystins and 500 cases of chole cystins with gall stones and their complications. Most of the patients were between thirty and fifty years of age. Three bundred and thirty six were

women the ratio of females to males being 5 25 I According to the Aschoff Fedorov classification, these cases may be divided into 3 groups Group I Acute cholecy stitis, 7 cases (1 75 per

cent), hydrops of the gall bladder, 12 cases (3 per cent).

Group 2. Chronic uncomplicated recurrent choice

Group 2 Chronic uncomplicated recurring chole costitis, 154 cases (38 5 per cent)

Cosuma, 154 cases u.o. 3 per central Group 3. Chronic completed recutting chole Costitis, 2°5 cases (56 2 per cent). Among these cases there were 16 of supportative 30 of ulcrous, and 11 of gangerous choices exist, 13 of compressions of the gall blackets, 13 of compressions of the public control of the complete calculous ob complete calculous ob

The symptoms included coics in 566 per cent of all cases and apairs radiating to the back and the right shoulder in 88 per cent. In 67 per cent the temperature was clevated. A history of jaundice was given in 4315 per cent. It ching of the skin occurred in 125 per cent. It ching of the skin planned of gastro intestinal discomfort. 72 5 per cent of beching 65 per cent of constipation, and 534 per cent of vomitting. In 37 cases (6) per cent, claim hab been passed in the stools. Liver en largement was prisent in 52 55 per cent, and en largement of the spleen in -25 per cent.

In typical cases the diagnosis is easy, but in atypical cases it may be very difficult

Of the 400 patients with cholerwithts, 50 (40 pt this) were operated upon with aboute indications (severe cholecystitis common duet to strauton perforation, peritonitis etc.) 185 (48 7g per cent) were operated upon with relative in dications (chronic recurrent cholecystitis with long intervals mild acute cholecystitis with long intervals mild acute cholecystitis and cholecystitis place bechangeits), and \$3 (**o**) per cent) were operated upon with indications varying be taken absolute and relative.

In 137 cases (34 25 per cent) the operation was done during an acute attack, and in 261 (66 75 per cent) during an interval between attacks. Anæs thests was induced with ether, ether and chloro orm or (in the last one and a half years) 1/2 per cent novocain solution During the past six years the author has employed an angle incision by which the rectus muscle is divided transversely. The oper ative procedure of choice is cholecystectomy was done in 216 cases with 5 deaths. In 121 cases cholecystectomy and choledochotomy were done with 16 deaths Cholecystogastrostomy was per formed in a case cholecystectomy with chole dochoduodenostomy in 5 cases with 2 deaths, hepaticoduodenostomy, in i case hepatocholangio gastrostomy, in I case cholecystectomy with gastro enterostomy, appendectomy and gastric re section in 49 cases, with 2 deaths and tamponade with dratoage in I case with a fatal outcome Retrograde cholecystectomy was done 207 timesfrom the fundus in 190 cases and as a subserous procedure in 204 cases

Primary hypernephromata have been found in the broad licament, the ovaries the uterus, the pelvis. the retropentoneal tissue the pancreas, the sper matic cord the falciform ligament the tongue, the cibary body, and the liver

The tumor in the case reported by the author was found at operation to arise from the under surface of the right lobe of the liver and to he well encan sulated It was about 20 cm in diameter On micro scopic examination it was found to have a faul, definite connective tissue cansule and to show the histological picture typical of malignant hyper MERCER BARRY M.D. nephroma

Casovnikov P Cholecy statis without Stones (Ueber Cholecystitis ofine Steine) Festmit Chir 1018.

Of 348 cases of cholecystitis which were operated upon, absence of stones was found in only 40 (ri c per cent) The author frequently noted a relation between cholecystitis and acute infections such as appendicitis but could discover no difference be tween the calculous and non calculous forms of chologyatitis The ages of the patients ranged from twenty to seventy years. There was no relation between the type of the cholecystus and the pa tient's age or the course and duration of the condition before the operation. In the total number of cases the ratio of males to females was 1 6 and in the cases without stones 1 4. The 40 cases without stones included 19 of chronic recurrent cholecystitis with slight changes in the gall bladder wall and slight adhesions to the adjacent structures 14 cases of chronic recurrent cholecystitis with well marked changes in the gall bladder wall and adhesions, 4 cases of chronic recurrent cholecystitis with a sclerotic shrunken gall bladder pancreautis obstruction of the deep bile tracts jaundice and cholangeitis 1 case of empyema of the gall bladder with papercautis and leterus and a cases of subacute infectious cholecystitis with pancreatitis, angiocholitis and slight leterus-r in which the gall bladder was invaded by the bacillus typhosus during the course of typhoid lever and z in which it became infected by the bacillus coh during the course of typhus Inlargement of the lymph glands along the bile ducts was noted in almost all of the 40 cases

Histological examination of 33 gall bladders re vealed nothing specific for the non-calculous cholecystitis In the bacteriological examination of 20 cases the cultures were sterde in 13 In 7 they yielded bacillus coli in 3 staphylococci, in z streptococci in a bacillus typhosus and in a atreptococci and bacillus coli or staphy lococci

In cases with obstruction of the deeper bile ducts and complete retention of bile the author operates as early as possible When the retention is incomplete and the jaundice does not subside he operates between the seventh and the fourteenth days He favors the radical procedure. In 22 of the 40 cases reviewed cholecystectomy alone was done, in 4 cases, cholecystectomy and choledochotomy were done with drainage, in 8 cases cholecystectomy and appendectomy, in 2 cases, cholecystectomy and pyloroplasty in t case cholecystectomy and gastro enterostomy in I cholecystectomy and gastropers in r cholecystectomy pylorotomy, gastro-enterostomy and appendectomy and in 1, cholecy stertomy and choledochogastrostomy The author prefers the Kehr incision and subscrous, retrograde removal When the bile is sterile he usually establishes drain age for from twenty four to forty eight hours-in cases with duct obstruction and cholangeritis by choledochotomy and drainage and closure of the abdominal wound with a tampons. The x death in the cases reviewed occurred on the third day after cholecy stectomy and gastro-enterostomy from ham orrhage from the anastomosis due to hamophilia in spice of blood transfusion before and after the

operation The end results were determined in 32 cases I wenty-eight patients (87 5 per cent) made a com plete recovery Two complained of obscure pain One of the latter had in addition to cholecystitis, an echinococcus cost of the liver, and the other a easter where Aeither of these conditions was disg nosed before or during the operation

The author concludes from his material that non calculous cholecystitis which constitutes about o per cent of all cases of cholicy stitis does not differ essentially from the calculous form, and that there is no basis for classifying it in a acparate no-ological group Facept roentgenologically in certain case the diagnosis cannot be made before operation

Case bistories are tabulated E Bunnes Votor (Z)

Gross D M B A Statistical Study of Choleli thissis & Path & Bacteriol 1929 xxxx 503

The author presents a statut cul study of cholele thiasis hased on 802 cases found in a series of 0 531 autopsies performed at the Leeds General Infirmity His findings show that gall stones may occur before the thirtieth year although their incidence is low up to that age. After the age of thirty they become

progressively more common Gill stones are tutce as common in nomen as in men but the relative difference decreases as old age is approached. As they are not appreciably more common in married women than in single women the difference in the sex incidence is not wholly or even mainly ascribable to the influence of pregnancy

Obese persons develop cholelithiasis more frequently than then persons There is a definite association between cholchthiasis and cholccystitis especially cholclithiasis with facetted and pigment calcull There is no association between cholecyst itis and the solitary cholesterol and mulberry stones Gall stones in general are probably less com mon in cases of stray berry gall bladder than in other gall bladder conditions, but mulberry calcula are more frequent in the former

Gall stones may be associated with local malignant desease of the gall bladder itself or of the bile ducts but there is no relation between cancer in general and cholelithiasis There is probably a relationship between diabetes and gall stones Atherona and gall stones are related. The association is most marked with respect to the solitary cholesterol stone There 15 perhaps some relationship between chronic nephri tis and gall stones but there i no relationship be tween cholelithiasis and gastric or duodenal ulcer ation No association evists between cholelithiasis and incumal or femoral berria in either ser but in women there is a striking association between cholelithiasis and umbilical and ventral herme, con ditions also associated with adiposity

The author concludes that local disturbances of an inflammatory nature are responsible for the forma tion of the facetted tones, and general metabolic factors for the formation of the solitary cholesterol

stone MANUEL E LOCKER STEEL M.D.

Ohnell II and Lindblom L Air Filled Bile Ducts in a Case of Fistula Between the Duo denum and the Common Bile Duct radio! 1020 x 121 The authors report a case of fistula between the

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The 16 cases of malianant growths included o of carcinoma of the gall bladder and 2 of bile duct carcinoma in which an exploratory Isparotomy was done and s of carcinoma of the pancreas and papilla of Vater in which an anastomosis was made between the gall bladder and stomach or duodenum In the last group there were a postoperative deaths.

Ten of the patient with malignancy had gall stones In the cases of the econd group there was rall bladder or common duct obstruction by echinocores, s cysts. In the first case cholecustectomy chole dochotomy and drainage were done in the first stage of the operation and an echinococcus cyst of the liver was removed in the second stage. Death resulted from cardiac weakness. In the second case in which the common duct was obstructed by an echinococcus cyst the removal of an echinococcus cyst in the liver and choledochotomy were followed by recovery

In the third group there were 40 cases of non calculous cholecystitis and 360 cases of chole cystitis with gall stones and their complications Most of the patients were between thutw and fifty years of age Three hundred and thirty six were

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Group 2 Chronic uncomplicated recurring chole

cistitis, 154 cases (38 5 per cent)

Group 3 Chronic complicated recurring cholecustitis 225 cases (56 2 per cent) Among these cases there were 16 of suppurative, 30 of picerous, and re of cancrenous cholecystitis, 13 of empyema, 18 of sclerosis of the gall bladder, 31 of perforation, 128 of obstruction of the bile ducts, 2 of obliteration of the ducts and 26 of remplete calculous ob struction

The symptoms included colics in 56 6 per cent of all cases and pains radiating to the back and the right shoulder in 83 per cent. In 67 per cent the temperature was elevated A history of jaundice was given in 43 15 per cent Itching of the skin occurred in 12 5 per cent. All of the patients com plained of gastro-intestinal discomfort, 72 3 per cent, of belching 63 per cent of constipation and 53 4 per cent of vomiting. In 37 cases (9 per cent) calcult had been passed in the stools Liver en largement was present in 52 25 per cent, and en largement of the spleen in 2 25 per cent

In typical cases the diagnosis is easy, but in atypical cases it may be very difficult

Of the 400 patients with cholecystitis 162 (40 e per cent) were operated upon with absolute indi cations (severe cholecystitis common duct ob struction perforation peritonitis etc.) 155 (38 75 per cent) were operated upon with relative in dications (chronic recurrent cholecystitis with long intervals mild acute cholery states and chole cystitis plus cholangeitis) and B3 (20 75 per cent) nere operated upon with indications variage be

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Three hundred and seventy four of the putients were discharged as cured. I wents six died. The deaths were ascribed to cholemic bleeding in 8 cases purulent cholangeitis and multiple abscesses in 6 cases peritonitis in 4 cases pneumonia and pulmonary gangrene in 2 cases, cardiac insufficiency in 2 cases, and hamophilia embolism of the pul monary artery, hamorrhagic pancreatic necrosis, and chloroform anæsthesia in z case each

The results from one to maeteen years later could be determined in the cases of 272 patients. Nineteen had died of various infectious diseases 4 (x 5 per cent) had died from the original condition (complications of the cholecystitis) 225 (82 7 per cent) were well, 38 (14 per cent) had been benefited and 5 (2 per cent) had not been benefited C Aurov (Z)

Cattell R B End Results of Surgery of the Billiony Tract Ann Surg, 1929 lxxxix 930

Cattell's report is based on a follow up of 634 patients who were operated upon at the Lahev Come a year or more ago

Acute inflammatory changes were present in 11 per cent of the gall bladder specimens and chronic inflammatory changes in 82 7 per cent Stones were found in the biliary tract in 77.4 per cent of the cases The pathologist reported to of the excised gall bladders as normal I mmary carcinoma of the ducts exclusive of the ampulla of Vater, was found

in o 5 per cent of the cases Cholecystectomy was performed for stones in arr cases and cholecystostomy was done in 39 cases Good results were obtained in 77 7 per cent. The operative mortality was 68 per cent but this had dropped to less than 1 per cent during the past two years. The mortality was higher in the cases in which an extra biliary operation was done in addi-Therefore extra bilinry surgery with the exception of appendectomy, has been largely

abandoned Sixty four per cent of the patients with chronic cholecystitis without stones were relieved of their symptoms by drainage or removal of the gall blad der In the few instances in which the gail bladder appeared normal but adhesions were present the results were consistently poor. The results following surgery in cases without bibary stones were not as satisfactory as those following the removal of stones Therefore patients operated upon for biliary conditions without stones are now more carefully watched after the operation especially with regard to their dictary management and the care of the gastro intestinal tract. Non surgical drainage has not been

instituted in cases of chronic cholecystatis Stones were found in the hepatic or common duct in 8 4 per cent of the total number of cases In 62 per cent their removal was followed by good results The operative mortality was 133 per cent Five patients (11 1 per cent) died after they left the hospital from recurrent or overlooked stones in the common duct Because of this high mortality following the removal of common duct stones the

author beheves that all gall stones should be re moved early

Cholangestis without stones occurred in 6 cases Exploration and drainage of the common duct was performed with an operative mortality of 166 per cent In the patients who recovered the results were

good The author believes that cholecystectomy is the operation of choice for acute and chronic cholecysti tis with or without stones unless the patient is a very poor operative risk. After cholecy stostomy the function of the gall bladder is definitely impaired and in a large percentage of cases the clinical results are not satisfactory Only 28 3 per cent of 60 pa tients who were treated by cholecustostomy were

relieved of their symptoms During the past year 30 per cent of the total number of patients operated upon for biliary disease had an exploration of the common duct. This was twice the number that had been previously subjected to choledoehostomy The incidence of common duet stones was increased so per eent by these additional explorations The operative mortality has not been increased Therefore the common duct is now explored in all cases with a history of raundice in the presence of stones dilatation or thickening of the duets of pancreautis

During the past two years the operative mortality on this series has dropped from 5.7 per cent to less than a per cent. The improvement has been due to greater care in the pre-operative preparation of the patient and the selection of cases and to the use of controllable spinal anasthesia. Nearly one half of the deaths resulted from surgical shock patients died from pneumonia and a from pulmonary embolism. Acute pancreatitis was found at autopsy in the cases of a patients subjected to choledochos tomy who had shown no clinical evidence of such a distu bance STANLEY H MENTZER, M D

Madier J Rebelllous Pancreatic Fistula Anastomosts of the Fistula into the Jejunum Cure (Fistule pancréatique rebelle anastomose de la Estule dans le jéjunum guérison) Bull et mêm Soc

nat de chir razo ly, 570 In the case reported a pancreatic fistula developed eight days after gastric resection for ulcer terminated by closure of the duodenum and gastrie segment and gastrojejunal anastomosis by the I 6lya method. As the fistula failed to close under medical treatment for seven months. Madier decided to anastomose it into the duodenum. On removing the cicatrice and the underlying cicatricial block which was about the size of a mandarin orange and adherent to the liver mesocolon duodenal stump and head of the pan creas he found no irregular cavity the size of a walnut, at the bottom of which there was an opening When a sound was introduced into the opening it penetrated from 8 to 10 cm obliquely backward, to the left and upward The region of the duodenum proving to be in an unsuitable condition for the operation Madier anastomosed the fistula into the

efferent branch of the previous gastrojejunal anas tomosis, which was well provided with peritoneum

The postoperative course was not smooth Six days after the operation the wound opened, with the escape of a fluid which digested the abdominal wall. Two months later, honever healing was complete Today three years after the operation, the patient is in good condition and may be considered cured.

Lecks: who read Maders puper before the So cucty reported the case of a woman sety, three years old whom he treated for an abscess of the body of the panceas the sixe of an orange Dramage of the abscess was followed by the formation of a fistila from which there escaped a fluid having the properties of panceante; juice Four months after the operation on the abscess Lecene dissected out the fistilous tract inserted a No 72 Nelation catheter and my planted the fixtula with the catheter into the greater curvature of the stomach. As in Madier 3 case heal ing was not amonth but was ultimately complete.

FLORENCE A CARPENTER

MISCELLANEOUS

Kok F The Treatment of Intraperitoneal Haem orrhage Clinical and Experimental Investigations (Yu Behandiung intrapentionaler Bubagen Klinische Beobachtungen und experimentelle Unter suchungen) Zitzer f Geburits & Gineck 1928

In six of thenty one cases of acute internal ham orrhage from tubal pregnancy all of the blood has as well as clotted was allowed to remain in the pen toncal cavity. The subsequent course was smooth and recovery was rapid. Not says there are no objections to operating with the patient in the Trendel cubure position.

The author reviews the various theories formerly held regarding the treatment of intrapersioneal win orthage and states that even today there is no generally recognized opinion as to the most effective procedure. To determine whether in cases of free intrapersioneal hamorrhage it is best at operation, to leave the blood behind or remover the made experiments or rabbuts. His experimental technique his observations with regard to infection and toru damage, the primary mortfully, the changes in the circulating blood the hamoglobin, the crythrocyte and elucocyte counts the albumin content of the blood and the formation of adhesions are reported in detail. The findings was well as the contract of t

he indunes may be summarized as follows

No injurious effects were noted when autogenous

blood was left in the peritoneal cavity, neither were

peritoneal adhesions formed

Of the greatest impotance in the formation of adhesions are mechanical injuries to the persioneum and the irritation produced by vigorous wiping with y sponges. Blood obtained by vinescention and left in the abdominal cavity was very ripidly absorbed without reaction (including the clots). Absorption of this blood was of great aid in the recovery of the animal rendered aname. It materially has tened blood regeneration and sometimes prevented death from himorrhage. It is not the greater quantity of fluid but the specific blood elements that are resorbed which ever this flavorable action.

In conclusion Kol. says that in the treatment of exangumated patients with ruptured tubal preg nancy quick barmostass and the most rapid possible completion of the operation are of greatest importance. In such cases under aseptic conditions the blood may be left behind in the perstoneal cavity without heastation. Hamatoceles and encapsulated hamorrhages abould be removed. Drugge (SIE)

GYNECOLOGY

UTERUS

Schreiner B F A Clinical Study of Fight Cases of Momi Mallenum Sure Gance & Obst. 1929.

The statistics of the New York State Institute for the Study of Malignant Disease show that malig nant myoma of the uterus constitutes six tenths of per cent of all ute int tumors examined

Of the eight patients with malignant myoma whose cases are reported in this article one is clini cally well after four years and nine months. This patient received high voltage \ ray treatment one month after operation. The results in the seven other cases were poor. In a few instances palliative results were obtained

Malianant myoma causes death by direct exten

sion and metastasis

The author emphasizes that all fibroids should be examined microscopically and if a suggestion of mali nancy i found the patient should be subjected to postoperative imadiation immediately HARVEY B MATTREES M D

Meige J V Adenocarcinoma of the Fundua of the Uterus A Report Concerning the Voginal Metast ises of This Tumor A Logiand J Med, 1929 CCI 133

Of 206 proved cases of adenocarcinoma of the fundus of the uterus which were investigated at the Huntington Memorial Hospital Boston, in the period from 1917 to 1928 metastatic cancer was found in the sagina in 12 1 per cent

The two outstanding signs of vaginal metastasis were vaginal discharge and bleuting Twenty one of the 25 patients were between the ages of fifty and sevents years Ameteen were marned and 15 had horne children One or more nodules which bled curettinggaredy were found in the vaginal wall

with that found it's showed typical adenocarcinoma identical " " the hi vaginal tumors Tactions of the Vaginal metastasis has been attributed to phatic extension venous extension and direct in tched11 m

plantation The author believes it occurs by direct In the cases reviewed the treatment consisted in total hysterectomy with radium treatment of the vaginal metastasis or radium treatment of both the

Twenty three of the patients were followed up Eighteen lived an average of two years after the operation The 5 who were hving and well were treated by operation and radium irradiation Two cases are reported in detail

uterus and the vacina

I EDWARD BISHEOW M D

cir

Strachan G I The Technique of Radium Aprilcation in Uterine Carcinoma J 654 86-12 Best Fmp 1020 131V1, 367

In the application of radiam in the treatment of carcinoma of the uterus it is necessary to designic (s) the manner in which the radium tubes should be introduced so that as many as possible or all of the tumor cells will be killed at the same time (rithe quantity of radium and the leigth of erya-t necessary to kill the tumor cells without inuregite secondary growths and (4) the best type of screen ing material to be employed

In carcinoms of the cervix lie min and of radium to the interior of the uterus and the via simultaneously The uterus receives about tom The bes and the vagina about 1,500 mgm by Th treatment is repeated after a week and seam ale two weeks a total of about 7000 mgm by ben given Then for six months no further irradiation if applied unless a recurrence develops Iny unt ment is given only in cases with extensive ghadula metastases or recurrence in the parametrium.

Ward gives a dose of from a 400 to 4 200 mg hrs The radium is stitched in place in the cerviting needles are inserted in the penphery of the growth of there is involvement of the vaging rectum of bladder In a few days the patient is up and at the end of a week she is sent home with instructions to douche daily with a solution of putassium permits gapate and to report once a month to examination Subsequent applications of radium depend upon the reaction Ward stresses the importance of follow up

work by the surgeon who treats the case Chil and Norris usually push the bladder upward, amputate the carcinomatous mass with the cautery, and insert 50 mgm of radium in the central canal and a similar dose in the stump. The carter round is left to heal by granulation. A second in pheation of radium is made at the end of three weeks if amputation of the cervix has not been done and after from three to six weeks if the cervix has been amputated Clark and Norns also advocate cleans ing douches and foilow up work. In inoperable inte cases they give a single dose of from 2 000 to 2 300 the mingm his of radium ittadiat on if this can be dore e of a sout risk of esusing a bladder or rectal fistula

olon alson hunes the radium in and around the 1114 he four giving a dosage of 7000 mgm hrs and Don the bot he patient at intervals thereafter growth. nd wa untly removes any necrotic growth examines m 8 to e with 10 per cent copper sulphate, Forsdike h

pward. dal corper when the ulcer becomes paints the surfa in an ince of tissue has been removed for and injects collor E anasiation & radium tube is inserted callous After a pa I and two tubes are statched in

microscopic examin in the cervical cana

the vagina. The vagina is then packed with gauze soaked in liquid paratiin and the labia are sutured by two stitches. In twenty four hours, 1,772 mgm, hts are given. This may be continued for three days or, better repetted on the elevanth and thritteth days

Pinch, in the London Radium Institute, varies his treatment according to the type of growth In cases of endocervical carcinoma a tube containing from 50 to 75 mgm is inserted in the cervical canal and from four to six tubes of 10 mgm each are placed in the thickened cervical wall and left in place for twenty four hours. If the parametrium is infiltrated a tube of so mgm is introduced for twenty four hours and ceneral irradiation of the pelvic cavity is obtained by means of flat applicators containing from 150 to 200 mgm which are placed in each that fossa for from twenty four to thirty hours The treatment is not repeated before six weeks have elapsed. In the ulcerative type a variable number of 10 mgm tubes are fixed in a dental wax cast of the ulcer and kept in position for twenty four hours. In fungating types the excessive growth is removed by excision curet ting eauterization or diathermy

In the Radium Institute of Pans uterine or vaginal applicators are left in place for from five to seven days 7 200 mgm hrs of stradiation being given. The applicators are removed and a cleansing douche is given daily. The Yray is used in the more

extensive cases

In the Cardiff Royal Infirmary the vagina is doubted turie daily with lyalo solution and the rectum well detared. The eerives then exposed and a 50 mm tube of radium is placed well up in the cervical canal from four to six to mgm tubes are placed in the periphery of the growth and a 50 mgm tube is introduced into the eenter of the comman tube is introduced into the eenter of the comman tube is introduced into the senter of the place of the comman of the polyel intervals. In cases of carcinoma of the body of the uterus two somms tubes and one 2 signs tube are placed in the uterus exartly down to and in changing the certain and kept in place for twenty four cluming the certain and kept in place for twenty four

The evidence seems to indicate that better re sults are obtained from small doses of radium applied over a long period of time than from massive doses given in a short period.

period.
Assanan A Baayea M D

Rubens Duvat II The Treatment of Recurrences of Cancer of the Uterine Cervis (A propos du traitement des récidives du cancer du colde l'utérus) Buil Soc d'obst et gynte de Par 1929 xviii 315

Rubens Duval believes that in the development the recurrence and the cure of cancer the role of the terrain has been insufficiently appreciated. Experi ments have shown that different animals of the same species react differently to the same strumbus as regards the development of malignancy. Normal organisms are unsuitable soil for the development of

canset cells prabably because of bumoral conditions and unknown regulating mechanisms but the development of canter does not mean that the organ an a cantrely lacking in these humoral conditions and regulating mechanisms. The fact that the man highance, of a neoplasm differs from one subject to another shows that the inhulting factors, while in sufficient are not wholly abort after a cancer has developed. It is reasonable to suppose that they may in some cases increase in potency and become able to dispose of cancer cells left after an incomplete coeration.

"Some years ago Larsen and Lysholm at Stock holm thought to improve their results from post operative irradiation of the breast (which were already good) by applying at one time the so called sterlizing dose. Fifty one price to the patients thus treated developed a recurrence within the state of the state of the state of the pasages destroyed an inhibitive power in the organism that in many cases, would othersuse have been able

to delay or prevent the recurrence

The gravity of the prognosis of recurrent cancer is seen in the fact that the organism has been unable to deal effectively with a few cancer cells remaining after a supposedly thorough removal. Unless the condition of the terrain can be altered it will prob ably not be able to deal any better with the cells that, through being in a state of repose and hence of slight radiosensitiveness, remain undestroyed after irradiation The improvement of the terrain is therefore a very important part of the treatment of the primary cancer and its recurrence. The general treatment instituted by Broeq and the author was directed toward this end Although it did not pre vent recurrence, it seems to baye favored the subse quent action of radium in a case of recurrence of ean FLORENCE A CARPENTER cer of the erryix

Gagey J Postoperative Recurrences of German Gancee Treated with Rudium Late Results (Récudives post opératoires des cancers du cel traités par le radium résultais élornés) Bull Soc d'obst et de gyate de Par, 1970, xvvii, 322

In the period from 1979 to 1922 Gagoy troated with radium forty, two cases of cervical cancer recurring after operation. Thirty one of the patients were followed up. Ten died within the first year, therein in the second year four in the third year, and one in the fourth year. Three are entirely well eight years after the radium application. The histories of these three are burefly given. At the time of the operation, their ages were sixty one, they two man forty three years. The recurrence developed six months three weeks, and eight weeks, respectively after the operation.

In the first case the irradiation was given with 65 mgm of radium filtered by 0.5 mm of platinum and 1 or mn of lead in a cork of about 5 mm, and the duration of the exposure was forty eight hours In the second case three tubes of emanation filtered by 2.5 mm of platinum in cork stoppers were used

GYNECOLOGY

UTERUS

Schreiner, B T A Clinical Study of Eight Cases of Myoma Malignum Surg Gynec & Obst , 1929, xlvn1 730

The statistics of the New York State Institute for the Study of Malignant Disease show that malig nant myoma of the uterus constitutes six tenths of r per cent of all uterine tumors examined

Of the eight patients with malignant maging whose cases are reported in this article one is ching cally well after four years and alne months. This patient received high voltage X ray treatment one month after operation The results in the seven other cases were poor. In a few instances palliative results were obtained

Malignant myoma causes death by direct exten

sion and metastasis

The author emphasizes that all fibroids should be examined microscopically and if a suggestion of malignancy is found the national should be subjected to postoperative irradiation immediately HARVEY B MATTHEWS M D

Meigs J V Adenocarelnoma of the Fundus of the Uterus A Report Concerning the Vaginal Metastases of This Tumor \ England J Med,

1919 001, 155

Of 206 proved cases of adenomicanoma of the fundus of the uterus which were investigated at the Huntington Memonal Hospital Boston, in the period from 1917 to 1918 metastatie cancer was found in the sagins in I I per cent

The two outstanding signs of vaginal metastasis were vaginal discharge and bleeding. Twenty-one of the as prtients were between the ages of fifty and seventy years Nineteen were married and 15 had borne children. One or more nodules which bled es bally were found in the vaginal wall Uterme curettinger showed typical adenocarcinoma identical

with that found in athe hougheds be retions of the vaginal tumors

Vaginal metastasis has been attributed to bem phatic extension venous extension and direct in plantation The author believes it occurs by direct

implantation In the cases reviewed the treatment consisted in total hysterectomy with radium treatment of the vaginal met istasis or radium treatment of both the

uterus and the vagina Twenty three of the patients were followed up Eighteen lived an average of two years after the operation The 5 who were hving and well were treated by operation and radium pradiation

Two cases are reported in detail I EDWARD BISEROW M D

Strachan G I The Technique of Radium Appli cation in Uterine Carcinoma J Ohn & Grant Best Emp, 1929 xxxvl 367

In the application of radium in the treatment of carcinoma of the uterus it is necessary to determine (1) the manner in which the radium tubes should be antroduced so that as many as possible or all of the tumor cells will be killed at the same time, (2) the quantity of radium and the length of exposure necessary to kill the tumor cells without injuring the normal cells, (3) the best method of influences, secondary growths and (4) the best type of screen ing material to be employed

In carcinoma of the cervix Heyman applies radium to the interior of the uterus and the vegina simultaneously The uterus receives about 800 mgm hrs and the vagina about 1 500 mgm hrs. The treatment is repeated after a week and again alter two weeks a total of about 7 000 mgm hrs bein green. Then for six months no further irradiation is applied unless a recurrence develops \ ray treat ment is given only in cases with extensive glandular metastases or recurrence in the narametrium

Ward gives a dose of from 2 400 to 4 200 mgm brs The radium is stitched in place in the cervix and needles are inserted in the periphery of the growth if there is involvement of the vagina rectum of bladder In a few days the patient is up and at the end of a week she is sent home with instructions to douche daily with a solution of potassium perman gamate and to report once a month for examination Subsequent applications of radium depend upon the reaction Ward stresses the importance of follow up

work by the surgeon who treats the case Clark and Norms usually push the bladder upward amputate the carcinomatous mas with the cautery and insert so mem of radium in the cervical canal and a similar dose in the stump. The cautery wound is left to heal by granulation. A second application of radium is made at the end of three weeks if amoutation of the cervix has not been done and after from three to six weeks if the cervix has been amputated Clark and Norris also advocate cleans ing douches and follow up work In anoperable cases they give a single dose of from 2 000 to 2 500 cases they give a single dose of from 2 000 to 2 500

regar has of radium irradiation if this can be done
within-out risk of causing a bladder or rectal fishula eput risk of causing a bladder or rectal fistula

Donk alson hurses the radium in and around the growth agricing a dosage of 7 000 mgm hrs and cramines he rate of intervals thereafter he patient at intervals thereafter

Forsdike bi Porsdike by intly removes any necrotic growth paints the surface with 10 per cent copper sulphate and myects collon lal copper when the ulcer becomes callous After a pic ce of tissue has been removed for microscopic examination a radium tube is inserted in the cervical canaly and two tubes are striched in I Irregularities of menstruation The cause may be early death of the ovum It is possible that in some cases the administration of hormone may strengthen and increase the length of life of the ovum

2 Amenoritora This is dependent upon bormone production The hormone content of the blood may show only slight variation from the normal or may be constantly below normal, or entirely lost. The possible influence of hormone treatment is difficult to detrimine as spontaneous cure may occur or the condition may be favorably affected by a change in the patient's mode of living and other factors. Never theless the results of experiments carried until the production of the production of the conbility that under the influence of hormone the mucosa may be prepared for embedding of the ovum and the fertulity of the or, a may be increased.

3 Abnormal persistence of the follicle without rupture, causing continued stimulation of the uterine mucosa. In such cases hormone therapy, is directly contra indicated and only abrasio mucosa is to be

considered
4 Insufficient menstruation In cases of uterine

hypoplasa the degree of menstrual bleeding can be indicanced fay orable only by hormone treatment. In vegetative insufficiency manifested by defective turgor and a purelle character of the pelvic ecibilar tissue and the uterus good results are dependent upon long continued treatment with large doses. For cases with signs of dimactericinsufficiency which have been intovably indisenced herefore by unstandardized preparations, the expensive standardized preparations are unnecessary. With regard to dosage in amenor thora Schroeder advocates the scheme workedout by Lequeure V an Roop, and De Snoo. Fisson (6)

Corso G B Studies of the Pelvic Cellular Tissue and the Hiohypodysatric Neuronseular System in Science, state Ovaritis (Ricetche sal cellulare pelvice esulastema neuro-vascolare thaco-pogastroco nella ovarite sciencistica). Clin ostat, 1929 xxx, 38c

Microscopic study of the pelvic tissue in scherocyath icovarius shows that the dominant anatomicopath ological characteristic is a diffuse scheross of the connecture tissue and that the histological appear ance of the cysts depends upon the stage of evolution which the ovarian foldies have reached at the time the examination is made. The scherosis is not limited to the ovary it affects more or less all of the gential system. Not only the celular tussue of the pelvis and the control of the control of the control of the control of the pelvis and the control of the control

The cause of the process may be an exogenous or endogenous irritation the latter chiefly from the

appendix and pelvic colon. Because of the reticulo histocytic structure of the pelvic connective fusue and the fact that it contains many lymphoid structures it is evident that at least at first the changes which take place are of the nature of a constitution of defense reaction against the external causes threat enung the organs. When the retire of a constitution is the contained of the contained of the contained a diffuse neurofibromatosis which is responsible for the intense pelvic neuralgia associated with the condition.

These findings show that operation on the nerve trunks of the pelvis—resction of the sarral sympathetic, the hypogastic perarterial sympathetic, the hypogastic perarterial sympathetic, or the ovarian nerves—is justifiable. These operations stop nerve conduction and therefore pain those stop nerve conduction and therefore pain those times as the changes are not confined to the nervous a sitem but affect the ovary primarily and most intensely and sometimes even the uterus at its often necessary to remove the ovary or uterus often necessary to remove the ovary or uterus which the ovary is so greatly changed that it causes signs of endocrane dysfunctions.

AUDREY G MORGIN M.D

MISCELLANEOUS

Geist S II The Morphology of Normal Menatrual Blood and its Diagnostic Value Surg Gynec & Obs 1929 the 145

Gent describes the method of obtaining and preparing specimens of menstrual blood for study. The constituents particularly studied by him were the vaginal and uterine epithelium and leucoej tes, both mononuclear and polynuclear.

The uterine epithelium was found in most marked profusion on the second day of the penod Gest discovered also clumps of strome cells which occurred entirely independent of the epithelium and in varying profusion. The strome criticism was most marked on the second and third days. Another striking finding was the presence of dequanated variant entirely and the presence of dequanated variant entirely may be presented in the presence of the prese

vagnasi epiticians.

The study of the white blood cells showed that
the number of poly nuclear leucocy tes varied greatly.
The white blood cells were more numerous in the
menstrual blood contained in the vagna than in the
menstrual blood sessing from the cervix.

Gest concludes that menstrual blood contains a number of elements which are so characteristic and stable as to make it possible to differentiate men strual blood from blood of other types of genital bleeding This fact gives additional diagnostic aid

in pelvic diseases accompanied by hamorrhage ROLAND S CRON M D

and the duration of the exposure was seventy two hours In the third case three corks containing tubes of emanation filtered by 15 mm of platinum were employed

Also reported are the cases of three patients treated with radium because operation was incomplete These three women have remained well-two for nine years and one for eight years Their aces at the time of operation were thirty five forty six and forty five years

Gagey believes that postoperative radium treat ment is indicated definitely when the operation is incomplete or it is necessary to scetion neoplastic FLORENCE A CARPENTER.

ADNEXAL AND PERITITERINE CONDITIONS Loster, II Torsion of the Normal Fallopian Tube Am J Surg. 1020 111 62

Most cases of torsion of the fallopian tube which have been reported were cases of torsion of a hi drosalning or an oversan or tubal tumor

The case reported by the author was that of a sixteen year-old girl who gave a history of sudden pain in the lower part of the abdomen which by the following day, became localized to the right lower quadrant. The temperature reached a maximum of tot degrees F There was no comitting Tenderness but no rigidity was present Rectal examination revealed a tender mass in the right lower quadrant which seemed to be attached by a pedicle to the uterus The leucocy te count was 12,200 with 86 per cent polymorphonucleurs

A diagnosis of ovarian cost with a twisted pedicle was made. At operation, the right tube was found to be twisted one and a half turns and to contain harmorrhag a fluid. The axis of the twist was anamic and distal to the point of torsion the tabe was tense and bluish black. Salpingectomy was performed the appendix was removed and the abdomen closed without drainage Recovery was

uneventful Torsion of a normal tube may be favored by the course of the tube the length of the mesosalping

a taut artery or tortuous veins, but the direct causes are not known

The symptoms are very similar to those of an ovarian cyst with a twisted pedicle sudden sharp pain vomiting and later a rise in the temperature Physical examination reveals tenderness and rigidity On pelvic examination, a mass can be palpated in the

affected forms The condition must be differentiated from ovarian cyst with a twisted pedicle appendicutes omento volvulus salpingitis intestinal obstruction and

py elitis Unless operation is performed rupture of the tube may occur with the production of hematoperatoneum with symptoms of secondary anamia, gangrene and

peritonitis The treatment is excision of the tube down to the I EDWARD BISEROW M D horn of the uterus

Schroeder R The Clinical Use of Sex Hormone Preparations (Die klinischen Anwendungs ebiete der Sexual hormonpraeparate ihreklimischen Teste) Deutsche med Il charche, 1929 1 3

In spite of all advances in our knowledge regarding the biological characteristics of the ovarian bormone the problem still remains to be solved as to how this knowledge may be applied to human beings. The question of dosage is complicated because when the different species of animals are compared at becomes evident that dosage cannot be based on body weight In the rat the cestrus reaction is produced by about 4 mouse units which in the case of the human being would correspond to from 8 000 to 10 000 mouse In rabbits on the other hand, the cestrus reaction requires 21 mouse units and on this basis a noman weighing 60 kgm would require - 000 mouse

If sustead of a saginal smear the growth reaction of the uterus were used as a standard a purely quan titative reaction might be worked out Moreover the ability to influence the growth of the hypoplastic uterus and the intervals of the menstrual cycle might prove to be tests of value also in clinical cases

In order to obtain practical clinical indications for the use of standardized hormone preparations it is necessary to begin with normal ovarian function This is manifested by (1) hyperamia of the genital organs foosening of the tissues growth of the uterus and varing and the normal form and position of the uterus dependent upon the turgescence of the tis sues (2) the characteristic development of the sec ondars sex characteristics (these two groups belong to the vegetative ovnrian functions) (3) the genera tive functions of ripening of the ova and follicles corpus luteum formation and preparation of the endometrum for embedding of the ovum a series of processes which occur in regular order and are termi nated by menstruation if conception does not occur

The two groups are not necessarily in direct rela trooship as the generative processes may begin before the vegetative processes are terminated and even the course of the different phases (the seventy and dura tion of the menstrual bleeding) may be governed by other influences Insufficiency of germ development may result secondarily from involvement of the ovary in general weakness of the body due to infec tious, metabolic circulatory or other conditions When it is primary it is due to faulty function of the germ plasm which often begins after years of normal function and becomes more frequent with increasing age especially after the fortieth year in association with marked forms of infantalism usual ly with pluriglandular endocrine disturbances

In the selection of cases suitable for hormone ther apy it is doubtless necessary to exclude first the cases of insufficiency of a secondary nature or at least to delay attempts to restore the function of the ovary by the administration of hormone until the primary process has been corrected. The most important forms of primary insufficiency coming under consid

eration are

r Irregularities of menstruation. The cause may he early death of the ovum. It is possible that in some cases the administration of hormone may strengthen and increase the length of life of the ovum.

2 Amenorthea. This is dependent upon bormone production. The hormone content of the blood may show only slight variation from the normal or may be constantly holon normal or entirely lost. The possible influence of hormone treatment is difficult to determine as spontaneous cure may occur or the condition may be favorably affected by a change in the particular smode of living and other factors. Never theless the results of experiments carried by built of the condition of the property of the condition of the c

3 Abnormal persistence of the follicle without rupture causing continued stimulation of the uterine mucosa. In such cases hormone therapy is directly contra indicated and only abrasio mucosæ is to be

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Corso G B Studies of the Peivic Cellular Tissue and the llichtypogastic Neuroriscular System in Sclerocystic Ovaritis (incerche sul cellulare pelvico e sul sistema neurovas, olare biaco-pogastico nella ovarite sclerocistica) Clin osto 1929 XXXI 185

Microscopic study of the pelvic issue in selency; the womins shows that the demands anatomicopath the womins thores that the demands and incompatibility of the pelvic selection of the study of the consective time and that the histological appearants of the cvist depends upon the stage of evolution which the ovarian follufes have reached at the time the examination is made. The silerosis is not limited to the owary it affects more or less all of the gential system. Not only the cellular tissue of the pelvis and the contraction of the pelvis of

The cause of the process may be an exogenous or endogenous irritation the latter chiefly from the

appendix and pelvic colon. Because of the reticulo histocytic structure of the pelvic connective tissue and the fact that it contains many is mphoid structures it is evident that at least at first the changes which take place are of the nature of a constitutional defense reaction against the external causes threat ening the organs. When the process has reached the stage of actors with energy trunks of the pelvic show a diffuse neurofibrountiest which is responsible for the condition.

These findings show that operation on the nerve trunks of the pelvis—rescent of the Sexral sympathetic, the bypogastine periarterial sympathetic, or the ownrain nerves—is justifiable. These operations stop nerve conduction and therefore pain lowever, as the changes are not confined to the nervous system but affect the ovary primarily and most intensely, and sometimes even the uterus, it is often necessity to remove the ovary or uterus, the operation of the ovary or uterus of the ovary or uterus, which the ovary is so greatly changed that it causes sense of endorme disfanction.

ALDREY G MORGIN, M D

MISCELLANEOUS

Geist S II The Morphology of Normal Menstrual Blood and Its Diagnostic Value Surg Gynec & Obst, 1929 2ht, 145

Gest describes the method of obtaining and preparing specimens of menstrual blood for study. The constituents particularly studied by him were the vaginal and uterine epithelium and leucocy tes, both mononuclear and polynuclear.

The utetine epithelium was found in most marked profusion on the second day of the period feeti discovered also clumps of strong cells which occurred entirely independent of the epithelium and in varying profusion. The strong extrusion was most marked on the second and third days. Another striking finding was the presence of desquamated vaginal epithelium.

The study of the white blood cells showed that the number of polynuclear leucocytes varied greatly The white blood cells were more numerous in the menstrual blood contained in the vaging than in the menstrual blood issuing from the cervix

Gest concludes that menstrual blood contains a number of elements which are so characteristic and stable as to make it possible to differentiate menstrual blood from blood of other types of gential bleeding. This fact gives additional diagnostic aid in pelvic diseases accompanied by hemorrhage

ROLAND S CRON M D

OBSTETRICS

PREGNANCY AND ITS COMPLICATIONS

Borra G A Case of Associated Extra Uterine and Intra Uterine Pregnancy (Su di un caso di gravi danza extrauterina associata a gravidanza uterina) Clin ostel 1292 xxxi, 237

The patient whose case is reported was a woman binty one years of age who began to menstruste at the age of cleven and whose menstrust periods had always here regular. She was married at the age of twenty and had had seven previous pregnances, all of which had ended normally at term except the fifth and artth which terminated in abortion. The fifth and artth which terminated in abortion. The visual was always and the presence of the control of the presence of the

The last menstruation occurred May 4 but on June 25 there had been a slight genital harmorrhage for a dis 3 On June 24 the patient experienced an attack of violent pain in the left lower quadrant of the abdomen which irradiated to the accolumbar region and was associated with pains of an expulsive

character

Following her admission to the hospital she felt well for two days but at the end of that time moder at hit continuous pain begain in the left lower quadrant of the abdomen. On June 10 she experienced intense pain in both lower quidrants and hownish blood was discharged from the vagins. A diagnosis of runture of a left tubal pregnancy was most

At laparotomy the ruptured left tube and the left ovary were removed. Uneventful recovery re-

eulted

On August to the patient suddenly experienced a uterine hamorrhage with diffuse prin in the abdomen and passed fragments of an embryo. The uterus was found enlarged and softened and the os perme able to a finger. The rest of the embryo was removed by curettage.

This was a typical case of associated intra uterine and extra uterine pregnancy ending in the usual way

with abortion of both pregnancies

manufacture at first denset the possibility of pregmany his them she was told of the findings she ad
mitted that she had had an extramarial affair for
hour a year and had suffered great fear because
of it. The author believes that the psychic disturbance
and fear following the first conception may have
caused antiperistalize movements of the tube which
prevented the second owns from passage into the
uterus. The theory that nervous antiperistalize
movements of the tube may be a cause of extra
uterine pregnancy but there advanced under
movements of the tube may be a cause of extra
uterine pregnancy but there advanced under
the movements of its transition of mailter
mation of the tube cap citizal inflammation or greater
mation of the tube are gental inflammation or greater
mation of the tube are consistent of the condition
discuss that might have accounted for the condition
and the condition of the condition of

Modiano Intra Abdominal Hæmorrhage in the Seventh Month of Preganancy from the Rupture of a Large Uterine Varix Cæsarean Section Recovery (mondation pentonéale au e mos de la grossesse par rupture d'une grosse vance uténne césanenne guérason) Bull Soc d'obst et tynte de Par 1,012 xvis 131

The patient whose case is reported was a woman eventy four vears of age who had here married for two and a half years. Her menstrual history was normal. At the age of thirteen she was under treat ment for three months for a condition disensed was mously as appendicutis and peritonists. Since that time she had had no abdominal as myhom. In the seventh mousle of her first pregnancy without any premonitory symptoms she was attacked by stabing pairs in the abdomen after unmaining and we also grains in the abdomen after unmaining and we disting pairs with the abdomen after unmaining and when the short of the short

reaction Spontaneous rupture of the uterus was

thought probable but on account of the history ap-

pendicular peritonitis was also considered. Imme-

diate operation was decided upon

When the perioneum was opened the operative field was 600-06d with blood. The right border of the uterus presented numerous adhesions to the neghtoning organs. The appendix not inflamed was completely adherent to the execut The effort to activative the uterus met with difficulty. When a steriorize the uterus met with difficulty. When a large wen on the anterior uterone well. The entire findules of the uterus was tracted by very large

Varice.

Fearing a repetition of the attack from the upsture of adhesions and the tearing of another vein during the two remaining months of the pregnancy or during labor. Modiano performed a classical high casa rean action. The mother recovered. The child died after four days.

Zuech S An Unusual Gauss of Denth in Eclampsia (Dr una rare causa di morte in eclamptica) Clis

otlet 1929 EXE 220

The patient whose case is reported was a prumpara united on years of age who was admitted to the bopital as an emergency case on May o 1918 soon after the occurrence of severe strates of convulsions followed by deep come. For about a week she had buf frequent attacks of dezurees and headache with clouding of vision. Examination of the urine showed an albumn content of 7 per cent and many hysline and granular casts. A diagnoss of celampias was made and the Stroggond Zweild treatment given

As the stacks recurred and the condition was stemus delivery was effected by forcers Delivery was followed by rapid improvement. On May 10, the turne showed only slight traces of albumn, but that might the patient was restless, and the next morning she experienced difficults in brestless, there was a swelling the size of a child's fixt at her neck, and examination of the chest rescaled rise on the left side and no hreath sounds on the right side. Death occurred May 11.

Autops, showed that the cause of death was ponemothors. Bronchopneomona as also present but was not scrous. In the author's opinion an interstituti emphysicane caused upture of the vasceral fold of the pleura, the air then infiltrating first to the hills of the lung and then to the subcutations tissue of the neck. The infiltration of air in the interstituting to the lungs and so due to increased air pressure in the bronchieles and alveolo of the lungs are greating from the convulsive staticks which caused spasm of the glotts and decreased the size of the thorax by contracting the resinitatory muscles.

Very few cases of preumothorax in pregnancy and the puerperium are on record Senses, who re entityreported a case before the Obstetrical and Gyne cological Society of Venna, was able to collect only five cases from the literature. The most frequent cause of the pneumothorax in the cases reported in the literature was the rupture of a cicatrized apical slevebus.

Nartinofil A. An Experimental Study Regarding tha Transmission of Tuberculosis through the Flacenta (Contribute speranetale allo-studio della transmissione transplacentare della tubercolosi). Restal di prace 1393 iz 359

The author cites reports from the literature which show that the question of the transmission of tuber culosis from the mother to the fetus is by no means As he sees in his obstetrical clinic many cases in which abortion is necessitated by tuber culosis of the lungs or laryny he took advantage of this material to study the problem. In his investigations he inoculated spleen and liver tissue from the fetuses of women with serious and advanced tuberculosis into the peritoneal cavity of guines pigs and after a certain length of time killed the animals and made a careful histological examination of their organs In the cases of seven animals, the liver. spleen and lymph glands were removed and exam med In the cases of five others tissue from the re moved spicen was injected into a third group of guines pigs The protocols of the expeniments are reported in detail

The first and second groups of gunea pies remained in good health and showed no evidences of tuber culosis but in three of the third group which were given injections of splenic itssue from the second group signs of tuberculosis were found in the organisation group signs of tuberculosis were found in the organishment of the second group signs of tuberculosis were found in the organishment of the second group signs of tuberculosis were found in the organishment of tuberculosis.

which in some places had caused necrosis of the bronchial halls and rupture of the bronchi. The lessons were very much like those seen in chronic painboary theretuloss. In the liver there were nodules with a tuberculous appearance. In some of the lymph glands there was a granulomatous tissue with rightlehold cells similar to those described by the Bants as occurring in gland tuberculous and in others there was cell dictrius evidently from casea toon which showed numerous I amphans cells.

Although no tuberde hacili were discovered in the lessons the subtro concludes from his fondings that tuberculoses may be transmitted through the placeata. Experimental work done by others indicates that there as a filterable form of tuberculosis wrins that is less wrighent than rade fast tubercle bacilli. To such a filterable wrins Vlartinoili attributes the lessons found in the guinea pugs. In the lymph glands of one of the animals there were lesions that looked very much like those of Stennberg's lymphogranul latomators. This finding suggests that both lymphogranulomators and intra uterine tuberculosis are caused by an attenuated filterable form of tuberculosis virus.

Jensen Carlín k A Summary of the Resulta of the Treatment of Habitual Abortion in the Gynecological Clinic at Lund During the Per lod from 1994 to 1927 (Zusammenstellung der Frgebasse der Behandlung der habituellen Aborts an der Franenkinnk in Lund 1904-1927) Acto obst et gimes Casad 1930 vin 202

At 65 necological Clinic at Lund there were treat ed during the period from 1904 to 1927 thirty, fine cases of babitual abortion in which it was impossible to ascertain the cause. In twenty four cases the abortion occurred in the third month

In the treatment the patient was kept in bed for as many days every month as mensitration would have lasted if the patient had not been pregnant and systematic ondluctic treatment was given although there was no evidence of syphilis in either the patients instory or the results of laboratory tests. In some cases obstetrical interference was done on the basis of the usual indications Of the thrity nine pregnances, twenty seven (69 23 per cent) resulted in the birth of a living child.

LABOR AND ITS COMPLICATIONS

Materzanini A Neglected Shoulder Presentation Ending in Spontaneous Evolution (Parto in presentazione di spalla trascurata espletatosi in evo luzione spontanea) Clin oifet 1929 xxxx 189

The patient whose case is reported was a multipara trently who years of agr who sa admitted to the hospital forty eight hours after more of the membranes. The fetal head was above more ratus of the pulss. There were no active most ratus of the pulss. There were no active most ments of the fetus and the fetal heart beat was not perceptible. The left arm protruded from the external gentalia, and was synantic and edematous. The left shoulder was held beneath the arch of the pubsition of the velva which was greatly distended and on the same plane as the perincum, the lateral part of the left balf of the thorax of the fetus protruded

Strong contractions of the uterus continued and distended the perineum more and more until the lateral part of the abdomen and the left hap of the fetus appeared. A hook was then applied and the child extracted. It was dead and showed beginning maceration. There was no laceration. The puer

perium was normal, and the patient was discharged well on the twelfth day

This case demonstrates that a left shoulder presentation with the back forward and the bead in the right line fossa may undergo spontaneous evolution. Honever such an occurrence as unusual and should not be awaited. It cannot occur unless the contractions of the uterus are strong the pelvis, is large and the fetus is small or as dead and micerated so that it it susues are completely relaxed.

AUDREY G. MORGAN. M.D.

Martin E. Protection and Incision of the Perl
neum (Daminschutzund Dammschutzt). Monaische

I Gebrith w Gynese 1938 Ixt. 4.21
In man, the less are an insueles us not of a constant size like the skeletal muscles. Whereas in animate it is a broad powerful muscle plate on both usless of the pelvis without any connection with the coccygous muscle, in the human being the insier layer of the coccygous muscle becomes a part of the pelvis floor and as firmly until of with the posterior edge of the levitor air muscle. The latter in its musclar part a vanually developed and therefore of varied func

tional value The progenital diaphragm which lies transversely in front of the levator space forms a umform struc ture with the levator surface only in the perincum Only during labor, when the edge of the levalor and the urogenital diaphragm are stretched out do they form a thin unified surface so that a lateral incision of slight depth will strike them both After labor the cut in the edge of the levator made by a deep lateral incision retracts deeply into the tissues a fact of great importance in the suturing When a median incision is made or a perineal tear occurs conditions are different Under such circumstances the levator and progenital diaphragm are separated where they are firmly adherent and the separated parts are easily united by suture Therefore an mession to relieve strain should always be made in the center of the perineum

Spontaneous teras in the edge of the levator muscle occur most frequently near the puber region, where the muscular portion passes over into the faster. I many instances the levation is turn without moment of the row way in the row of the row way influence rearing of the levator and muscle it is not always possible to prevent their ing of the levator by inclusion. The permeant should be protected to prize at thrid degree tears, but no

importance is to be asembed to its conservation as the tensions reducing effect of a perimed tear or meason may prevent a too extensive tear in the edge of the levator mucked. Bulsteral tears usually occur in cases in which the perimeum has been allowed to cases in which the perimeum has been allowed to stage of the best of the perimeum companies. The second stage of labor and the second stage of labor and the levator and muste stretches more shad, and easily than during paniel apassis

PUERPERIUM AND ITS COMPLICATIONS

Devraigne L. Balze L. and Mayer M. Puerperal Scatlet Feer (Sur quelques obstravations de sar latine puerperale survenues à la Materiaté de l'hôpi tal Landoischer). Bull See d'obst et ginde de Per 1992 1994 337.

The authors report six cases of puerperal scarlet.

fever occurring in two small epidemics two months apart in the obstetrical division of the Landouslet hospital. In one case the infection followed shor two and in the cases it followed delivery at term

All of the women were primipara

In the first case of the first epidemu, the initial symptoms appeared on the third daw after delivery, which took place the entit four hours after the patents a discussion to the hospital. No recent first itness had occurred in the patient's family or raming her associates. In the second case the infection or curred on the tenth day after delivery. The woman the first patient was the first patient with the first patient was the first patient was the first patient was the first patient with the first patient and the first case came down suddedly with typical scarled fever

The four other cases constituted the second epi demic The first patient to develop as mptoms was a girl of seventeen years who entered the service in labor, without fever and was delivered three days later No case of scarlet fever could be discovered in her family or among her associates. The infection became apparent on the seventh day after her ad mission. The second patient in this group was in the labor ward during the same twenty four hours as the first patient. She presented the first symptoms on the seventh day after delivery. The third woman entered the post delivery service while one of the two other patients was still there and just after one had been removed. She was in a communicating ward. The scatlet fever developed on the seventh day In the postabortal case which occurred in the second epidemic the infection became manifest on the third day after an abortion at the end of three and a half months of pregnancy and was complicated by otthe with subsequent mastordities

The containment of the work of

every case the onset was characterized by a very definite infection of the genital tract The possibility of a genital portal of entrance was therefore sug gested The physician who developed the condition had a characteristic sore throat. In one case a diphtheritic false membrane was present before the

exanthema appeared

With regard to the differential diagnosis between scarlet fever of puerperal origin and puerperal scar latinform erythema the authors state that the for mer is characterized by vomiting and a very rapid pulse In the cases reported, the puerperal infection was very discrete whereas scarlatiniform erythemas appear usually in cases of severe generalized puer peral infection with signs of grave septicarmia In puerperal scarlet fever the eruption is accompanied

by a discrete enanthema rather than by sore throat None of the infants in the cases reported con tracted the disease. They were separated from the

mothers as soon as the diagnosis was made LE LORIER who discussed this report, stated that in his opinion it was unnecessary to separate the in fants from the mothers FLORENCE A CARPENTER

Chabanier H Laquière M and Chevalier L Puerperal Colon Bacillus Pyonephrosis with Pseudotuberculous Lesions (Pyonéphrese post rravidique à colibacilles avec lésions pseudo tubercu leuses) J d urol med el chir 1929 xxv31 513

In the case reported that of a noman aged twenty five years the urine had been examined on a number of occasions during pregnancy and had always been found normal Delivery was normal as was also the child In the first week of the puerperium the unne hecame turbed and a low arregular fever developed This state continued for five or six neeks. The fever then became regular and the turbidity of the urine increased A crisis of pain in the right lumbar region was followed by the expulsion of several small calcula formed wholly of tricalcium phosphate

At this stage the authors were called in They found the right kidney enlarged and tender to the touch The unne contained a large amount of pus and colon bacilli but no other organisms. A diag

nosis of pyonephrosis was made

In the following month five typical retention crises occurred Medical treatment was of no avail When polyneuritis developed the patient consented to operation Nephrectomy was followed by rapid

improvement

The aspect of the kidney suggested ulcerocaseous tuberculosis with secondary infection. The kidney was very large with marked adipose perinephritis On section it presented a speckled appearance The pelvis was greatly dilated but not deformed The wall was thickened but neither congested nor ulcer ated The calyces were also dilated The papillae at the base of the smaller calyces were collapsed. At the papillocalycular angle the papille presented small ulcerations At the upper pole these were deep and appeared to have destroyed a large part of the renal parenchyma. The aspect of the paren

chyma was that seen in acute nephritis but the localized ulcerations strongly suggested tuberculous lesions Histological examination, however, failed to reveal anything similar to tuberculosis

FLORENCE A CARPINTER

NEWBORN

Murphy D P Ovarian Irradiation and the Health of the Subsequent Child A Review of More Than 200 Previously Unreported Pregnancies In Momen Subjected to Pelvic Irradiation Sure Gines & Obst. 1020 XIVIII 766

From a review of more than 200 previously unre ported pregnancies in women subjected to pelvic arradiation before or after conception and an apply sis of 320 pregnancies following irradiation which have been reported in the literature the author draws the

following conclusions I It appears reasonable to suspect that certain of the gross structural defects found in children

arradiated an utero are the results of such arradiation 2 There is as yet no definite indication that ova rian irradiation prior to fertilization has any detri mental influence upon the health or development of subsequent children Harvey B Matthews M D

MISCELLANEOUS

Henkel M Recent Results in Clinical Obstetries Seue Ergebnisse fuer die klimische Coburtshilfe) Deutsche med Il chrischr 1028 11 2131

Henkel discusses the obstetrical problems of the last ten years attributing first importance to im provement of the life prospects of the child during birth particularly in cases of contracted pelvis, a matter which has recently been brought into prom mence by the well known and remarkable observa

tions and conclusions of Hirsch

In the management of lahor in cases of contracted pefvis operations to widen the pelvis have been practically abandoned and abdominal section with open me of the uterus in the lower segment of distention is the method most in favor. In his discussion of this method, Ifenkel raises a number of objections to the extraperatoneal cervical procedure preferred by Luestoer and Doederlein He points out that the latter operation is often impossible technically on anatomical grounds

Henkel states that if the child is not viable varinal delivery should be attempted The Braxton Hicks method is still a good procedure. To secure engage ment of the head in high position, Lyelland s forceps were advocated for some time Not much has been beard of this model recently at any rate it is certain that the Ljelland forceps are by no means so superior in the Naegele forceps that they are to be recom mended to the practitioner as an all purpose instru ment

In deciding bow far the head has advanced in the pelvis Henkel relies on bimanual palpation under deep narcosis He emphasizes that in the rest of the management of labor (the measures taken to reader its course paniess are briefly reviewed) an under standing of the mechanism of birth for the individual case particularly in contracted pelvis constitutes the basis of the obstetrican a sart. Unlike Hirsch be believes that there should be on increase in the number of operations, particularly abdominal sections if demands also restriction of vaginal examinations since if such examinations are made often and one goes high up it is impossible to a vand carrying the micro-organisms piecen in the vaginar into the uterus and the warping of rubber gives a sill not prevent consideration. The progress of labor he believes a manufaction of the progress of labor he believes a manufaction controlled cheft, by external manual et analystic manufaction.

Henkel states that there is no necessity for internal pelvic measurements during labor but it is important to know the position of the head and the likeli hood of its being able to pass through the pelvis under the diriving force of the labor contractions. The latter are best stimulated and controlled by prepara

tions of the posterior lobe of the pituitary gland.
With many others. Henkel has ceased to regard
the avoidance of perineal tears as evidence of par-

itcularly good management of labor On the contruy he believes that the more the second slage of labor is shortened the better it is for the us use concerned and to shorten this stage he makes a deep median perimela incision extending to the planeter Such an incision heals better as a rule than sporta nousitears in which the thisses exercity brused

For the arrest of postparium hamorrhages caused by incomplete tears. Henkel recommends camping the torn vessels with forceps from the various instead of auturing or tamponad. The uterus is drawn down and the forceps are applied under the control of the ese to the uterine vessels on both sides induding the

adjaceot parametrial tissue

Other subjects di cussed by Hendel are the easily diagnosis of pregnancy (Jondels Ashbien method) the recognition of the louicones of pregnancy to question of the reciprocal nationus action of discasse and pregnancy and the indiaence of the reciprosal nationus action of discasse and pregnancy and the indiaence of the reciprosal nationus and the region of the reciprosal nations with regard to the effect of N are radiation, he urges great custom in the treatment of functional uterine harmorrhages with temporary reconters attentization.

GENITO-URINARY SURGERY

ADRENAL, KIDNEY, AND URETER

Peacock A II Perinephritic Abscess Gynes & Obst 1929 zlvm 257

The author discusses the diagnosis of perinephritic abscess on the basis of a study of twenty one cases

which he reports

In rose Richardson used the term primary nermenhritic abscess,' indicating that the infection had followed a metastatic hamatorenous course. In 1024 Hunt classified perinephritic abscesses into those of renal and those of extrarenal origin the former including abscesses associated with pyoneph ro is lithiasis traumatism and tuberculosis and other infections of the upper urioars tract

In cases of perinephritic abscess of extrarenal

origin there are usually no pathological changes in the urinary tract Braasch supports the view that such abscesses are cortical or subcapsular and arise from the periphery of the kidoey Furunculosis is often found to play a part in their causation

Abscesses of renal Origin are the direct extension of suppuration to the cortex and are formed beneath

the renal capsule

Abscesses of the anterior surface are extremely rare There was no abscess of this type in the cases reviewed by the author. In two cases there were abscesses at the upper pole of the kidney extending upward perforating the diaphraum and giving rise

to secondary lung abscesses

The ages of the author s patients ranged from eight to sixty three years. The average age was thirty two and a half years The average age of Richard on a patients with primary abscess was twenty nine years. Twelve of the author's twenty one patients and sixteen of Richardson's twenty patients were males The higher incidence of the abscesses in males is attributed to the greater frequency of traumatic infection in males

Fever was present in all of the author's cases There was a daily elevation to from 102 to 101 degrees F followed by a sharp decline with an accompanying sweat. In most cases there were mild preliminary chills followed by exhaustion and weak ness hausea and vomiting were frequent symptoms due to intoxication and absorption from the abscess In some cases they were severe but they ceased with the chills and fever when the abscess was in cised and drained

In the cases of abscess of the extrarenal type the duration of the symptoms varied from mine days to six weeks and in a number the abscess was preceded by furunculosis or skin infection In the cases of abscess of the renal type the duration of the symp toms was much longer, in some instances being as long as five years Most renal infections develop

slowly and extend beyond the kidney only after considerable drainage has been done

fain is usually severe. As a rule it is a unilateral backache at the level of the third or fourth lumbar vertehrs in the costovertebral angle. It was present in all of the cases reviewed. It was constant and throhlung and was increased by walking or move

ment of the scriehra

Irratation of the pages and erector sping muscles caused spasm rigidity, and partial fixation of these muscles The presence of an abscess in the renal muche caused rigidity of the spine and at times a temporary lordosis Swelling was present in seven teen of the cases reviewed In some of them it was shoht being discovered only when the nationt was lying perfectly straight on a hard flat bed In that position also it was possible to demonstrate a lateral curvature of the spine due to pressure of the abscess To reach objects on the floor the patient with a perinephritic abscess squats instead of stoops

Leucocytosis was invariably present and was more marked than that community associated with the

degree of fever present

In cases of extrarenal perinephritic abscess uro logical symptoms were slight or absent. The most common urinary symptom was painless frequent urination Urinary infection probably plays a small rôle in these abscesses and may be a secondary rather than a primary infection. In bacillus coli infection of the upper urinary tract hamaturia is not infrequent

At times the diagnosis of perinephritic abscess is very difficult. The deep position of the suppuration the perfect protection of the renal fossa and the absence of urmary findings obscure the origin of the pain Perinephritic abscess is often mistaken for tuberculosis of the hip or spine Richardson says

Cystoscopy, ureteral catheterization and \ ray although essential in excluding disease of the urinary tract or spine may be of no positive help in these The three principal signs are continued cases fever leucocytosis and abdominal or costoverte bral tenderness The \ ray finding of clouding of the line of the psoas muscle is a helpful but not in fallible sign

The author emphasizes the impor tance of stereoscopic \ ray examination

CLAUDE D HOLMES M D

A Case of Hæmaturia Arising from One Segment of a Double Kidney, Treated by Resection Bra J Surg 1929 XVII, 1,9

The author's case was that of a woman forty yeats of age who gave a history of continuous hamatures of five months duration unaccompanied by other urological symptoms The general exam mation was negative The urine was deeply stained

Jacobs A

management of labor (the measures taken to render its course paniels are briefly reviewed) an under struding of the mechanism of birth for the individual case particularly in contracted pelvis constitutes the basis of the obstetricians art. Unlike Hirsch be beliuves that there should be no increase in the number of operations particularly abdominal sections if demands, also restriction of vaginal examinations since if such examinations are made often and one goes high up it is impossible to a void carrying the micro organisms present in the vaginal into the uterus and the vacining of rubber glows will not prevent and the vacining of rubber glows will not prevent about the controlled chedly by external manual or ammation.

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adjacent patament in sour but Irende are the cub of the many particular and the Archem method the monomorphism of the monomorphism of the monomorphism of the required in Junious action of the required in Junious action of the respirate and preparate the indicate of the respirate and the influence of the respirate and the influence of the respirate which is solvertained with the regard to the effect of Van arradation he urges great caution in the treatment of functional uternac hamorrhages with temporary reenteen sterilusation.

Furst (5)

erated upon first In cases of anuma, the kidney with congestive symptoms should be operated upon be fore the other one even when it is the more severely damaged Small stones which have entered the ureter and may cause anuma should be removed first Pyelotomy, when practicable is always to be preferred to nephrotomy Nephrectomy is to be considered only in cases in which one kidney has been completely destroyed or is acutely suppurating and the other exhibits sufficient function

Operative results are as a whole unfavorable The late postoperative mortality is high and recurrence of stone is frequent, possibly because of a hereditary diathesis. The prognosis is especially unlavorable in cases of anuria from recurrence following oper

ation for bilateral lithiasis

When both ureteral and renal stones are present an attempt should be made first to remove the stone from the ureter by operation or through the natural passages as otherwise following the kidney oper ation a fistula of the renal pelvis is almost unavoid Papaverin is recommended as an antispas modic during or following attacks of renal colic When conservative methods fail in cases of stone in the ureter operation must not be delayed too long In cases of hilateral ureteral stone with anuria nephrotomy is to be preferred to ureterolithotomy as the former hastens the return of renal function Bilateral ureterolythotomy is suitable only for special cases JOSEPH (Z)

Papin M Partial Nephrectomy for a Large Serous Cyst Late Results (Néphrectomue partielle pour grand kyste séreux résultats éloignés)

J durol méd et chir 1929 xxvn 516

A woman of thirty seven years complained of pain in the right renal region and frequent and pain ful urination. Examination revealed hydronephrosis of a protic right kidney with colon bacillus infection Under medical treatment the symptoms of infection rapidly disappeared but as the pain continued in the right renal and the appendicular region and radiated into the lower extremity operation was performed after about seven weeks with the idea of removing the appendix decapsulating the right hidney and doing a high nephropery

A serous cyst the size of a hen's egg was found attached without a pedicle to the lower pole of the kidney Wedge shaped resection was done the cyst and the adjacent portion of the kidney being removed in one block. The inferior cally was preserved. De capsulation and high nephropery followed. The postoperative course was normal

Examination of the patient three years and three months later showed almost no functional deficiency of the right kidney The hydronephrosis was about the same (13 c m) but had not become infected

again and was not painful

Guinsbourg in 1890 was able to find only thirty nine cases of large serous cost of the kidney reported in the literature Later Albarran collected twenty five more Papin believes that it is almost impossible

to diagnose such a cyst before operation unless it is very large

In the discussion of this report, E Papin called attention to the fact that the tumor is mobile elastic, and painless. In the diagnosis the ureteral shadow is important. An intraperatoneal tumor compresses the preter but does not deviate it whereas a re troperitoneal tumor may displace it as far as the median line. If dronephrosis and serous cyst of the kidney can be differentiated by pyelography

VICTION stated that the two most frequent causes of error, bydronephrosis and ovarian cyst, can be differentiated by separation of the unines and pye

lography

MINET reported that he had seen a serous cyst attached only to the sheath of the psoas which dis placed the ureter so that it passed in front of the FLORENCE A CARPENTER sacrum

BLADDER, URETHRA, AND PENIS

Lackum W II von and Mitchell J I Posterior Vesical Lip Obstruction J Urol, 1929 XXII 57

In addition to enlargement of the commissional and Albarran groups of glands there are other causes of posterior vesical lip obstruction of an acquired nature to which the name inflammatory median bar formation has been applied. This condition may develop at any age after adolescence has been attributed to the presence of chronic infection of gonorrhoal or other origin in the adness of the lower part of the unnary tract

Afthough the literature shows that patients have been subjected to the punch operation when median bar formation has been the only obstructive lesson present the results of this form of treatment, even in uncomplicated cases, have frequently been most unsatisfactory In some instances subjective symptoms have been unrelieved or only partially relieved In others such symptoms as frequency, burning and cloudiness of the utine have been a postoperative development

The postoperative course is frequently attended by symptoms suggestive of septicemia These symptoms are attended by conditions which are not without danger and may not completely

clear up even during a long convalescence

Therefore, because of the underlying infection inflammatory median har formations without fibrosis are unsuited for surgical treatment of any kind which breaks the continuity of the surface

Recognition of chronic infection of the prostate and seminal vesicles as the etiological factor of the disorder is the key to the therapeutic measures In uncomplicated cases treatment of these injected adneta along the usual lines by massage instillations of mild silver protein and the application of the posterior Kollman dilator to the prostatic urethra

will relieve all symptoms subjective and objective The inflammatory median bar formation is not a local process Therefore it is not a surgical entity

with blood. It contained no casts and was sterde On cystoscopic examination, two preteral ordices were seen on the left side on a common ureteral ridge. The efflux from the outer and higher orifice was deeply blood stained whereas that from the inner and lower one and that from the right ureteral orifice was clear. The indigocarmine functional test was normal. I yelography revealed two pelves on the left side which were completely separated and occupied different levels. The superior and inner one was the smaller The lower and outer pelvis was The pelvis on the right was of the hifid normal Accordingly, there was a complete redupli cation of the pelvis and ureter on the left side | The hamatures was confined to the lower portion of the left kidney, but its cause was not determinable. As the humorrhage persisted resection was done Re covery resulted

Microscopic study of the lower half of the left Lidney revealed an interstitual hamorrhage asso crated nith considerable round cell infiltration. The tenal parenchyma showed early chronic changes especially in the glomeruli. The tubular epithelium showed intense cloudy swelling and some catarrb

Jacobs states that chronic nephritis may be present without clinical evidence. It is probably the underlying cause in many cases of so-called scho nathic or essential hamaturia and should be sus pected in cases of humaturia in which no cause can be found on complete urological investigation Long continued ha morrhage may necessitate nephrectomy LOUIS NECEMBLE MD to save life

Legueu F Fey B and Truchot, P Pyelography and Pyeloscopy (I yélographie et pyéloscopie) d urol med et chir , 1929 REVIL \$21

The authors empha ize that pyelography and nyeloscopy complement each other When pyelos copy is done it is important that the pelvis be com pletely filled In a case reported by Marion incom plete alling not the method was responsible for the

error in diagnosis The authors make a pyelogram in the course of every pyeloscopy The two methods have different aims from pyeloscopy we seek information as to the mothlty of the pelvis and ureter, and from pyelog graphy, information as to the morphology in a static condition Papia is wrong in asserting that pyelos copy shows only abnormal shapes of the pelvis It demonstrates rather that supposedly abnormal shapes are but aspects of the pelvis in the course of normal contractions phys ological deformations without pathological significance

LORENCE A CARPENTER

Chauvin E and Emperaire R The Technique of Pneumopyelography (Sur la technique de la pneumopytiographie) I'd arol mid el chir , 1929

In pneumopy elography which is of value especially in the detection of calculi, the contours of the pelvis are frequently indistinct. There are two reasons for this one is the escape of part of the injected gas by way of the ureter before completion of the photographic exposure and the other in the authors opinion is the presence of urine in the ramifications of the calvees which in dorsal decubitus are lower than the pyelo-ureteral onfice The authors technique to obtain a clear picture is as follows

The patient is placed in the lateral position on the normal side To inject the gas (atmospheric air) a 100 ccm syringe with an air tight but easily working piston is used Claude s manometer is in terposed between the air filled syringe and theopaque ureteral catheter When all is in readiness for the taking of the picture the piston of the syringe is slowly pushed in until the manometer indicates a pressure of from 60 to 80 cm of water The signal is then given to the roentgenographer and while the exposure is being made the manometer is watched and the pressure kept constant After the esposace the plug is removed and the nir is allowed to escape from the renal cavities, but the catheter is not removed until an ordinary py elogram has been made This has been the authors practice up to the presen time in order that a comparison of the results of the two procedures may be made which is especially useful when the privie image is confused by the superposition of an image due to gas in the intes mes FLORENCE & CARPENTEE

The Treatment of Bilateral Frangenheim P Aldney and Ureteral Stones (Die Behandlung doppelseitiger hieren und Uretersteine) Chiruf

1929 1 337 According to recent statistics based on a vist material the frequency of bilateral kidney stone varies between 9 and 14 2 per cent The thief aid in the diagnosis is the roenigen examination. The indications for operation must be much more cau tiously placed than in cases of large solitary kidney atone, and must be based on the conditions pre Acute pyonesented by the individual patient phrasis or complete blocking of both ureters may demand immediate operation. Operation may be necessary also to prevent further injury to the he considered in relation to the operative risk Under some conditions conservative treatment may give hetter re ults than operation. The decision must be governed not only by the pain fever and suppura tion but also by the location, form and size of the

stones Simultaneous operation on both sides is to be con sidered only in the cases of young persons without infection in the uranary tract. When the patient is in poor general condition or a proseptic state th advisability of operation even on one side may be difficult to determine If the more exten ively dis eased kidney is threatening life (pyonephrosis) it should be subjected to nephrostomy but not extu pated until the stone on the other side has been re moved If the more extensively diseased kidney is not endangering life, the better kidney should be opThe author recommends a prophylactic phimosis operation more frequent biopsy and when cancer is present, radical operation followed by roentgen therapy. When the case does not come to operation too late the prognosis is more or less favorable.

1. Bastrac Marg 1/2.

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GENITAL ORGANS Wesson M B Traumatic Hydrocele Colifornia & Wesson M B Traumatic Hydrocele

We soon reviews thirty cases of traumatic hadrocle. He sax is that the condition is due to long grade infection with repeated slight traumata. Insurance agents attribute it to strain just as the cultists say dislocated vertebra. To radiustrial lessors overfooling the fact that a vertebra cannot be dilocated 1,105 lbs of pressure crushing the neural arch and 800 lbs more publicating the neural arch and 800 lbs more publicating the healy had In case of his drocele tuberculous epidoly mits and new growths of the testude there is great danger of attributing the condition to an injury when it was present before the injury was received

Any inflammatory process which interferes with the lymphatic drainage of the funica vaganatis may cause hydrocele. An acute hydrocele tends to become cured as the primary disease becomes cured but in some cases the exciting factor may disappear and leave behind a persistent hydrocele.

Symptomatic hydrocele is most commonly caused by gonorrhora and tuberculosis but there are many other cause. A negative history of veneral disease is valueless. In all cases an examination of the seminal vesicles should be made. Non-veneral prostatutis is much more resistant to treatment than

prostatitis due to gonorrheea

Inflammation is the reaction of injury Ordinary trauma is followed by pain loss of function suching and discoloration Hydrocele can be attributed to trauma only if each mosts was present at the time of the injury I ain is due chiefly to epididy mitts

When the condition is acture the treatment should usually be pallitative but sometimes tapping may be necessary. In chronic cases tracture of nodine is sometimes injected but as a rule such treatment as unsatisfactory. Five per cent mercurochrome does not cause recurrence of the epithaly must and approduce a quick cure. In the cases of young patients tapping is rarely justified. The underlying condition should first be cured and the sac then removed. PENAMEY! ROLLEM MD.

MISCELLANEOUS

Scudder S A and Belding D L A Group of Higher Bacteria from the Genito Urinary Tract J Lab & Clin Med 1919 My Sor

The authors discuss non generated infection of the genito-urinary tract. The common pus forming bacilli and cocci have been found in numerous cases

but as a rule the higher bacteria have not been associated with chromic irritation. Three strains of higher bacteria have been isolated from the genito urnary tract. Strain A from the cervix of a child, and Strains B and C from the prostatic secretions of patients with clinical signs of chromic urefinitis but no positive chinical or faboratory evidence of gonor traction are proposed in the proposed proposed in the proposed proposed in the proposed proposed in the proposed proposed proposed proposed proposed in the proposed p

In obtaining the original cultures from the child, plates were streaked with the secretions directly from the upper vagina and cervix. The cultures from the adults were made from fresh centrifugalized pro atatic fluid on yeal infusion agar plates. In each in stance the colonies on the original plates were numer ous and plaque like and varied from the size of a pur point to a diameter of To mm. A culture me drum of the hormone type was used and was prepared with minimal heating and filtration. This medium was used in the form of broth o 5 per cent agar and z s per cent agar with and without defibrinated blood or other enrichment Comparative fermentation tests were made. The organisms were cultured in a per cent gelatin in hormone broth for seven days at a temperature of 37 degrees C and were studied in deep cultures and in scaled hanging drop cultures on a warm stage microscope. The pathogenicity of the genito urinary strains was tested in mice guinea pigs and rabbits by peritoneal, intramuscular and oral administration. The serological relationship was studied by agglutination tests with immune sera for Strains A B and C tested against the genito urinary and respiratory strains

In fluid cultures the organisms resembled long chained short chained and lancet shaped diplococci with a tendency toward parallel arrangement of the long chains The organisms did not take the acid fast stain, and their gram stain was sometimes neg ative and sometimes positive in the same filament They were non motile In broth, the growth ap peared consistently in the lorm of creamy white tufts adberent to the walls of the culture tube by means of delicate trailing filaments In semi solid agar no sur face growth occurred, but the growth was grayish and semi diffuse below the surface, and deep growth gave rise to discrete radiate colonies Facultative anaérobes occurred consistently On solid agar the colonies were plaque like and ranged from or to to mm in diameter The typical colony had a de pressed center and a concentric ridge between the center and the periphery On blood agar the colonies appeared greenish and non hamolytic although Strain C produced a faint balo in the surrounding medium. The genito unnary strains grew best at a temperature of 37 degrees C At ice box temper ature there was no growth, at 22 degrees C growth was sluggish, and at a temperature above 53 degrees C the cultures were killed in ten minutes Optimum growth occurred at a hydrogen ion concentration of from PR69 to 7 2

It is emphasized that no reference is made to

the type of case in which the underlying lesion is

an infection that invaded the adness of the lower part of the urmary tract

adenomatous and that more time must clause before it will be known positively whether or not later recurrences will follow conservative treatment This report is only preliminary McGarthy J F Stepita C T and Halperin S J Sarcoma of the Bladder Am J Surg 1929 vii

A review of the literature on sarcoma of the hlad der is accompanied by a report of 2 cases. Only 128

cases are on record Sarcoma of the bladder may occur at any age but appears most frequently in the first and after the fifth decade of life. It is 3 times as frequent in men as in women. It is more often primary than second ary It is rapid in growth and exceedingly malignant It is usually situated on the posterior or lateral wall of the bladder and rarely involves the trigone The spindle cell variety is by far the most common Larly metastases are frequent, and generally occur in the lungs and pleura

The principal early sign is sudden painless hama turia Pain is inconstant Urinary frequency is often present Cystoscopy and biopsy offer the only cer tain means of diagnosis Surgical measures are usu ally unsatisfactors, probably because of the delay in the diagnosis and the rapid growth of the tumor Of the 2 patients whose cases are reported by the

authors one died four months after operation. The other was living and apparently well eighteen months after leaving the hospital

HENRY L SANTORD M D

Bleberbach W D and leters C N Primary Epi dermoid Carcinoma of the Male Posterior Urethra J ('rol 1929 xxii 105

Carcinoma of the wrethra is a rare condition. It occurs most commonly after the fiftieth year of age As a rule it is of the squamous cell type A review of reported cases suggests that trauma and intraurethral irritation from infection or stricture are contributing factors Long standing infections fol lowed by structure of the membranous urethra at or after the age of fifty years the so-called cancerous age, are symptoms which may be regarded with sus

picion The diagnosis is difficult. The estemoma causes partial obstruction the symptoms of which are easily confused with those of stricture of the deep urethra and may be overlooked until the condition is far advanced As the outstanding s, mptoms hamaturia murked pain following urination and fistula with induration in the deep perineum are of questionable diagnostic aid a tissue resection should be done for biopsy

The prognosis is very poor under all conditions In many of the advanced cases death results fol

lowing operation A large percentage of the patients develop recurrences with metastases and die within from six to ten months Honever Kretschmer re ports a case in which there were no recurrences two years after radical operation Early diagnosis is essential as radical operation offers the only chance for cure According to Bieberbach's experience in fate cases of this type of cancer, radium and the \ ray are of little value Bieberbach found that radium hastens nectosis of the malignant tissue producing a fatal toxxmia LOUIS NEUWELT M D

Majanc A Cancer of the Penis (Cancer penn)

1 estnik Chir 1928 XIII 283 Majanc reports eighteen cases of eancer of the penis. Phimosis was present in seven but in the records of several no information regarding the pres ence or absence of this condition was given The reports su the literature indicate that phimosis is an important factor in the development of cancer of the penis Next in importance is trauma. The cases observed by the author were admitted to the chair between the second and seventh months of the dis Attention is called to the fact that cases coming in latest showed as a rule a more favorable course. In two instances multiple carcinomatous ulcers were present. Histologically the leatons were of the cancer heratodes or planocellulans forms

which usually are more benign than the other types In ten cases the glans and the prepuce we c affected In eight the corpora cavernosa were also involved. In one case the prepuce alone was affected

Once the scrotum was included in the involve-In only one case nas there difficulty in m ctuntion Cachezer usually occurred late but in one case has present in the fourth month. In two cases there was a fistulous perforation of the prepare None of the eighteen cases came to autops) In no instance was there clinical evidence of metastases in the internal organs. In sixteen cases the inguinal glands were swollen In twelve the swelling was bilateral and in four cases occurred only on the left side. In one case there was thickening of the lymph vessels along the dorsum penus and in another enlargement of the hmph glands of the mons veneris. The regional lymph glands were cancerous in only a minority of the cases in which they were enlarged. In two cases an which the condition had been present for four and five years respectively there was no enlargement of thelymph glands In mine cases thelymph glands were removed and the area was given roentgen treatment Of the eight patients so treated who were followed, one was free from recurrence six years one five years one three years one one year and eight months and two one year after the operation There were no deaths In one instance removal of the lymph glands was followed by ordema of the lower extrematics which lasted several years and in another by a persistent lymphorrhosa One patient died after discharge from the hospital from profuse hemorrhage

SURGERY OF THE BONES, JOINTS, MUSCLES, TENDONS

CONDITIONS OF THE BONES, JOINTS, MUSCLES, TENDONS, ETC

Annovazzi G The Experimental Production of Bone by the fajection of Calcium Salts (Produzione sperimentale di osso mediante iniezioni di un sale di calcio) Arch ital di chir 1939 xxiii 537

The author reports experiments in which calcium salts were injected into the ears of rabbits and into the tricens tendon of the foreleg of a dog It was found easy to bring about calcification of connective tissue in a few cases true ossification results. In the ear of a rabbit an injection of calcium salts which caused an irritation which must bave changed the condition of the circulation was followed by considerable ossification in the perichondrium and ad pacent connective tissue in a period of eighty five days In one of the animals a membranous ossifica tion was followed by an atypical endochondral neo plastic ossification extending downward from the surface such as was seen under normal conditions by Bruni and others and in certain tracts in cartilage by Reichert and Meckel This case showed that not only was ossification brought about in a calcified zone but that an osteogenetic condition was created in cartilage into which calcium bad not been injected directly

The findings prove that in certain forms of connective tissue the presence of calcium safts and the occurrence of changes in the circulatory conditions are sufficient to bring about ossification which may invade the adjacent cartilage even when the latter is not of the believe the Aupzary & Moreas M.D.

Andrei O The Experimental Reproduction of Acute Osteomyellits with a Filtrable Virus (Sulla nproduzione sperimentale dell'osteomelite scula con virus filtrabil) Arch vial de chir 1927 xxii scri

In an article published in 1927 the author reported that acute osteomyelitis cannot be produced with a filtrable virus. This finding has now been confirmed

by Ross
Andres and in his previous article that the filtrates
and plasmoly sates did not show any special toxicity
and plasmoly sates did not show any special toxicity
and could be attributed to derivatives of hacteria
flux could be attributed to derivatives of hacteria
desired the presence of toxins in filtrates of milities
desired the presence of toxins in filtrates of milities
of staphylococc. This is incorrect Andres experiments were made only to determine whether filtrates
of staphylococc cause ostoromylists and did not
toxich on the question of the toxicity of the filtrates
toxicity of the filtrates whether the objects of the filtrates
of the filtrates the experiments would have toxicity
of the filtrates the experiments would be a toxicity
and to the quality of the filtrates that experiments would have toxicity
and the filtrates of the

the filtrates in the doses which he injected. He cr pressed no opinion in this sentence as to whether they are toase in different doses and under different experimental conditions. In fact, when he said in another sentence that the toxicity of the plasmol yastes was due in part at least to the potassium in trate contained in them he indicated that a part of it was due to other substances.

AUDREY G MORGAN M D

Hartfall S J and Heseltine L B A Case of Osteomyelitis of the Spinous Process of a Dorsal vertebra Bril J Surg, 1929 Xvn 184

The patient whose case is reported was a hoy eight years of age. The first symptoms were venuting and a dell pain in the back. When the child was admitted to the hospital his temperature was roz degrees. F and his respiration 36 Before his admission a diagnosis of meningitis had been made although the classical signs of this disease were lack with the control of the properties of the signal of the disease were lack with the control of the properties of the properties of the properties of the properties of the spinal fluid and believed cytes. Cultures of the spinal fluid and contigen examination of the spine were negative.

The symptoms rapidly increased in severity Opisthotonus developed the temperature rose to 107 degrees F, and the child hecame delirious Death occurred on the eighbl day

Bertocchi, A Grafts of Fired Fat in the Marrow of the Diaphysis of the Femur (Innest di grasso fassato nel midollo diafisano del femore) Arch stal da chir 19 9 INV, 175

Many materials have been used for the filling of bone defects. The author reports experiments in which he used fat taken from the fart generated to the kidney of rabbits, fixed with 10 pet capacity of the kidney of rabbits, fixed with 10 pet capacity of lin, and then kept in alcohol in hermetically scaled glass flaxis for periods varying from five to two hun dred and forty days. This fat was substituted for narrow curetted from the femora of other rabbits

The first effect of the introduction of the fixed fat was the arrest of the hamorrhage caused by the re moval of the marrow Chincally, the graits were

38

None of the organisms produced indel, reduced nitrates or gave a positive Voges Proskauer reaction They did not liquely gelatin and they were insoluble in bile. They fermented dextrin galactose, levulose maltose and saccharose, but they did not lerment arabinose dulcite inulin rhamnose, mannite sali cin or xylose

The organisms showed no pathenogenicity for lab oratory animals though they were recovered from the heart blood twenty four hours after their intraperitoncal inoculation Applutination tests were

made with difficulty

A satisfactory identification of the organisms can not be made because of the prevailing confusion in regard to the classification of the higher bacteria They have certain points in common with the classical cladothrix dichotoma of Cohn though are defi nitely at variance in others. Morphologically and culturally they seem consistent with kligler's de scription of cladothrix placoides isolated from dental

The methods of differentiation between gonor rhoral and non gonorrhoral urethritis and vaginitis are time consuming Baker claims that from 15 to 20 per cent of genito unnary cases seen in private practice are of non venereal origin. The authors suggest about the same percentage of cases of vaginitis and cervicitis in children are non venereal. They state that the mucous surfaces afford a favorable habitat for the higher bacteria and that organisms similar to the strains described in this report have been found in the respiratory tract. The association of these organisms with chronic inflammation of the genito

urmary tract and their absence as primary pathogens raises the question as to their nathogenicity CLAUDE D HOLMES M D

Thomas B A, and Wang I K Studies on the Comparative Clinical Values of Various So Called Urinary Antiseptics J Urol , 1020 XXI, 22

Mercurochrome given by mouth in a dose of 300 mem in salol-coated pills three times daily will render the urine antiscptic in about 30 per cent of

cases but causes irritation of the digestive tract Hers I resorcinol administered in 25 per cent olive oil in a dosage of o 6 gm three times a day has the

same disadvantages as mercurochrome and is of much less antiseptic value

Hexamethylenamin frequently causes indigestion and its bactericidal action is very uncertain

The germicidal strength of methylene blue was found by the authors to be much higher than they expected, but as a rule the dye was not present in the urine in sufficient concentration to be of anti-

septic value Pyndium administered by mouth in a desige of o 2 gm three times a day proved to be a very weak antiseptic. Its action against the bacillus coli was

practically nil Salol is of no value as a urinary antiseptic as the phenol content excreted in the urine never reaches a germicidal strength. However it seems to render the urine bland and less irritating to the inflamed urinary tract and thereby renders the patient more comfortable. In some cases, however, it tauses LOUIS NEUWELT M D gastric Intolerance

Vulpius O How I Treat Tuberculosis of Bones and Joints (Wie behandle ich die Knochen Gelenk Tuberkulose²) Ortop : Traematol , 1928, u 1

Vulpus describes the methods by which tuber culoss of bones and joints has been treated during the last fifteen vear at the Rappensu sanatorium under his direction. He emphysizes that as in the great majority of cases the local process is of meta static origin general treatment is necessity. The relationships are reciprocal however, as dissemina marked effect on the renewal conditions can be a marked effect on the renewal conditions can.

The general treatment must be based on careful control of the duet. The author prefers a mixed duet with a high vegetable and fat content. He himits the quantity of meat. He has seen no favorable results from the saltless duet recommended by Gerson.

Great importance is attached to the care of the In addition to massage and friction brine baths and frictions and jodine containing baths have been found beneficial. The extraordinary effective ness of these balacotherapeutic procedures seems to depend not only upon stimulation of the skin but also upon resorntion of the solutions and sensitiza tion of the skin to light and air the two most noner ful agents in the general treatment. While the an thor recognizes the excellent results that have been obtained with heliotherany he warns against over estimation of this treatment. He always combines light therapy with other measures and resorts to operative measures when they will accomplish the desired result more quickly Of the artificial sources of light the open carbon arc lamp the quartz, and

the sollux lamps are used at the author's sanatorium. Indine preparations and cod liver oil are also employed to improve the general condition. The author does not use tuberculin or the Ponndorf inocultion For local and general treatment he employs non specific stimulation with yatren and lipatren.

The problems of the local treatment are the most difficult. They vary considerably according to the localization and nature of the tuberculous process and can be solved satisfactorily only when the medieal adviser is trained in both surgers and orthope dies In one case he may be called upon to recognize a focus close to a joint in the latent stage and exter pate it at the right time before perforation occurs In another in the florid stage of the condition the chief indication may be as complete immobilization as po sible Veither rest in bed and extension appa ratus nor orthopedic apparatus to relieve weight bearing is sufficient for this purpose. The sovereign measure to prevent complications and ankyloses is the application of a circular plaster cast. This must be done with a perfect technique However if de structive changes have already occurred in the joint ends mobility is of more danger than value to the patient Under such conditions it is best to produce an ankylosis in the functionally most favorable position by means of a plaster cast When several win dows are cut in the plaster cast local observation irradiation and injection therapy are possible

In the decision regarding operative intervention the patient's general condition age and economic status must be taken into consideration in addition to the local findings

In cases of spondylitis the author performs the classical Albee plastic operation. His results have been very favorable. He emphasizes the necessity for rest in bed for at least six months after the operation and the subsequent rehef of weight bearing by a supporting corset with a steel framework.

Vulputs has found roentgen therapy of little value in tuberculosis of hones and joints

E OSTEN SACKEN (Z)

Bertocchi Grafts of Fixed Patella (Innesti dell'ap parato rotuleo fissato) Chir d'organi di motimento 1929 vii 377

Bertocchi reports twenty four experiments per formed on rabbits from six to seven months of age and weighing from 1 500 to 1 700 gm. The grafts consisted of the patella and all of its ligamentous at tachments with about 1 cm of the ligament of the quadriers which were removed from health 1 rab bits from two to seven hours after they had been also believed to the seven hours after they had been alcohol for three days in placed in 00 per cent alcohol for three days in the product of the varying from five to forty eight days varying from five to forty eight days

Illustological examinations showed that the fixed tendon was completels revisitized within forty days by the penetration of vessels from the connective tissue of the host and the production of a fibrous marrow in the lacune of the marrow. Bone reconstruction was struction was then begun by osteoblasts derived from the fibroblasts of the marrow. After one bun from the fibroblasts of the marrow. After one bun darked the structure of the structure of the sad vanced, and after two days reconstruction as advanced, and after two construction. The patellar cartilage which was much construction. The patellar cartilage which was much after two resistance to the penetration of the rehabilitating cells and as therefore reconstructed more slowly but cells and asst herefore reconstructed more slowly but

its rentalization had begun it the end of sixty days. The experiments show that perfect restoration of function can be brought about by the transplantation of patella fixed in alcohol and that even a complicated system of bone tendion and ligament may be reconstructed almost perfectly with the use of fixed tissues as a guide. The result is more nearly perfect than that of any other surgical method of crossistruction.

L'unce The Insertion of a Bone Peg Taken from the Tibla in the Treatment of Tumor Albus of the Knee in the Adult (L'enchevillement par grifton thail dass is tumeur blanche du genou chez i adulte) Buil et mem Soc nat de chr 1939 lv 636

Since November 1926 the author has employed Lever's method of treatment in six cases of tumor albus of the knee It consists in the insertion of a peg of bone across the joint by bony tunnelization

well tolerated They did not cause serious inflamma tion and were never expelled. Between the fifth and tenth days osteofibrous ronnections were formed which fixed the graft in the bone. By the fifteenth day the graft had decreased in size and was sur rounded and penetrated by an osteofibrous stroma which thereafter subdivided it until it finally disap peared between the one hundred and twentieth and the one hundred and fiftieth day At the site of the trephination there was a rapid proliferation of peri osteum The trephine opening was visible up to the one hundredth day The marrow became normal in appearance again between the one hundred and twentleth and the one hundred and fiftieth day The only sign of the operation then to be noted was n

thickening of the rortex Microscopic examination showed that the fixed fat rould be demonstrated by Sudan III staining up to the eightieth day. The fixed fat stimulated the host actively causing the migration of lencocytes and an abundant proliferation of the endosteum and the stroma of the marrow After intense vasculariza tion the endosteum and the connective tissue of the marrow gradually underwent hypertropby and metaplasia to form a block of bone with a fibrous marrow which enclosed the residues of the fixed fat At about the eightieth day the proliferation of bone stopped and absorption began By the one hundred and fiftieth day only a few endosteal trabeculæ re

mained and there was again normal fatty marrow The experiments show that homoplastic fixed fat is a good substitute for all of the substances that have been used previously to fill cavities in book and that it is a good atimulant to the new formation of bone AUDRES G MORGAN, M D

SURGERY OF THE BONES, JOINTS MUSCLES, TENDONS, ETC

Polacco E Experimental Homoplastic Grafts of Bone Callus (Intorno agli innests sperimentali omoplastici di callo osseo) Arch stal di chir 1929 XXIII 731

The author grafted pieces of bone callus six ten fifteen eighteen and twenty one days old from frac tures of the femur in rabbits into the fractured radius of other rabbits of the same breed and age. The grafts became opaque to the roentgen rays in from six to ten days The longer the time after the opera

tion the greater the opacity Histological examinations made at periods of ten fifteen twenty three and thirty seven days after the transplantation showed that the opacity was due to the formation of new hone While these ex aminations proved at least partial vitality of the grafted tissue (which only here and there showed degeneration and disintegration after from thirty to thirty five days) they did not show definitely wheth er the callus had undergone a true ossification or had been merely rapidly invaded by the host tissue However as callus undergoes development when it is grafted into soft parts, the author believes that in

these experiments it at least contributed to the bone formation The regeneration was certainly more rapid at the site of the graft of bone callus than it is in bones that are merely resected or those into which after resection a graft of bone without periosteum is inserted On the other hand it was slower than the regeneration occurring after the grafting of hone and periosteum a fact demonstrating the importance of periosteum in the regeneration of bone

AUDREY G MORGAN M D.

Antonioli G M Homoplastic Grafts of Bone Cal lua into Bone (Innesti omoplastici di callo osseo nello schetetro) Chir d'organi di movimento 1929

VII 550 Antonioli first reviews the work of other investgators which seems to show that homoplastic grafts of adult cartilage tissue do not take permanently but slowly and gradually disappear, whereas young car tilage of an embry onic character may take and pro bierate more or less actively and may even form bone. He then reports experiments of his own on guines pigs in which bone callus transplanted homo plastically into defects in fractured bone survived for forty days Forty days was the maximum time the graft was distinctly visible

The traheculæ of osteoid tissue, which seemed to he surrounded by a greater or less amount of granu lation tissue rich in cells and newly formed vessels survived almost completely, and in all of the bisto logical specimens seemed to be well preserved mor phologically and stained perfectly with the ordinary stains used in histological examinations. The groups of cartilage cells either scattered in the connective tissue or attached to the walls of the osteoid trabec ulæ showed greater variation in their degree of preservation. In all of the stages of the experiments perfectly preserved cells rould be seen beside other groups that were in more or less advanced stages of dissolution and absorption. In only one animal was the cartilage almost completely necrotic. In the others more of the cartilage was well preserved than was undergoing degeneration. This suggests that the islands of necrosis were due partir to the trauma of the operation and partly to the inflammatory reac tion of the host s tissues which affected particularly the peripheral part of the graft. The most intense changes were seen at the surface of the grafts The degree of necrosis was greater the more intense the

inflammatory reaction No mitoses or signs of proliferation on the part of the cartilage cells were seen in any of the animals

On the whole the author's experiments confirm the finding of Lubarsch that the fate of the graft de pends partly on the rondition of nutrition of the host tresues but also to a greater degree on the youth of the graft and its capacity for regeneration Antonioli concludes that homoplastic grafts of bone callus show a marked tendency to take and survive as most of the cells appear to be well preserved as regards form and staining expacity after a period of forts days

FRACTURES AND DISLOCATIONS

Gianturco, G Operative and Non Operative Treatment of Fracture of the Surgical Neck of the Humerus (Contributo al trattamento exicuto ed incruento delle fratture del collo chimigico dell omero) Chir di organi di mommile, 1029 30 447

From 132 cases of fracture of the surgical neck of the humens in which reduction was effected under general or local anisathesia and fluoroscopic control and fixation was obtained with traction apprarates or plaster the author concludes that non operative treatment is best if it is possible. When it is not possible he does not hestafe to operate. It sy per certible deallockment

Fracture of the surgical neck of the humerus often ends in vicious consolidation and more or less limi tation of function. It has generally been immobil ized in quite marked lateral adduction and external rotation and often even in elevation. The author regards this method as wrong and reports 5 cases in support of his opinion. In a of the cases the fracture was above, and in 3 it was below the tuberosity. In the first and second cases it was comminuted with detachment of the greater tuberosity While the fragments of the tuberosity were pulled up by the muscles the head was not greatly displaced with ref erence to the diaphysis. In both of these cases the arm was immobilized in a special apparatus which was designed by the author and is shown in an illustration. In one it was immobilized in abduction to 60 degrees and in the other in abduction to 40 de grees and quite marked external rotation. Although the patients were old and it was necessary to continue the immobilization for a relatively long time the functional result was perfect

In the 3 other cases there was quite marked dis placement. In 1 a case of pertrochanteric fracture

or, more properly speaking, detachment of the epiph vsis complicated by fracture of the surgical neck the proximal fragment was in abduction and external rotation with its apex forward and the diaphyseal fragment was displaced upward and forward Two attempts at non operative reduction were unsuc cessful In an anteroposterior roentgenogram the position appeared to be perfect, but a lateral picture showed that the diaphy seal fragment was in front of the proximal fragment. Operation and wiring were necessary The reduction was maintained best by abduction to 60 degrees external rotation of 20 degrees and anterior position of the elbow. In any position displacement of the fragments is easy. In Tadder s position of abduction to oo degrees and ex ternal rotation to 180 degrees the external rotation is excessive and in Whitman's position the elevation tends to bring about displacement

In the author's fourth case that of a young patient with a subtuberosity fracture the proximal fragment was neither abducted nor rotated outward. The distal fragment was adducted and not elevated. The fracture was reduced non operatively and the arm put up in a plaster cast in abduction of 30 degrees indifferent rotation and slight anterior postion of the eibow A perfect result was obtained.

In the fifth case that of an adult with a subtubroasty fracture the upper fragment was not ah
ducted but was rotated slightly inward and its aper
looked slightly forward. The distal fragment showed
anterior position and great adduction in a subcoracoid
position. Complete reduction was impossible without operation. During the operation it was found
duction of a better between the manufacture of the
fragments were easily displaced in horizontal abduction and in Whitman a position of elevation. A good
result was obtained. Auszur of Morozot, M D

without resection. In three of the cases the disease which had been present in childhood had healed with incomplete ankylosis and the patient suffered at tacks of pain which were probably due to the slight movement The object of the operation was to ob tain solid bony and closis. In the three other cases the disease was still active. In one it was a recur rence of an old lesson. In another, the lesson was acute and very painful the patient had pulmonary tuberculosis and his general condition was poor. In the third case a fistula was present and the local disease though attenuated, had not been entirely extinguished. In three cases the object of treatment was to obtain complete immobilization with the rapid creation of an ankylosis that would allow the patient to get about without compromising the progressive cure of the osteo-articular lesions

In the first group, solid bony ankylous was obtained Roentgenograms made fourteen months lat er showed that the hone peg was still present and that ossification had taken place around it in the in terarticular space. Of the patients with active disease at the time of operation one was treated recently one could not be traced and in one the portion of the bone peg that crossed the interarticular space had become absorbed and there was slight motion in the joint. In all of the cases there was immediate relief of the pain. I ance believes that in this result the bone trephination played a rôle. He concludes that it is impossible to attribute the result wholly to im mobilization since, from the mechanical point of view, complete immobilization could not be obtained with the single peg employed and the patients were walking on the fifteenth day The joint swelling de creased slowly. In the first group of cases all of the signs of inflammation disappeared in a few weeks The fistula in one of the cases of active disease which had been present for six months healed permanently in seventeen days. In all of the five cases in which a late \ ray examination was made the roenteeno gram showed a reconstitution of the ends of the joiots that was entirely beyond the normal in rapid ity and extent FLORENCE A CARPENTER

Puttl V The Treatment of Congenital Absence of the Tibia or Fibuta (Cura dell assenza con genita della tibia o del perione) Chier d'organi di movimento 1920, vii 513

Whether there is total or partial absence of the thus or absence of the fibulis the leg is always short end. The treatment adsociated by the author which has been used in twelve cases of sinch delects consists escription in birth and algorithm of the consists of the con

As the condition is congenital early operation is important It may be performed in stages. The au thor establishes alignment of the thigh and leg first and then obtains fusion between the leg and foot The two operations may be separated by a long in terval In some cases it may be necessary to correct lateral deviation of the fore part of the foot and flexion of the knee The best remedy for the latter if the angle of flexion is not more than 25 degrees is supracondy lar osteotomy When the flexion is great er than 25 degrees plastic eloogation of the flexors and capsulotomy are indicated Adduction or abduction of the fore part of the foot may be overcome by plus ter casts. When the foot is used to lengthen the leg the weight must rest on the metatarsals or toes. If the toes are to be utilized for weight bearing they may be brought into a right angle with the metatar sals by means of plaster casts. In two of the author s cases the toes offered so much resistance to angular flexion that subcutaneous tenotomy of the flexors was necessary After the leg has been brought into alignment and lengthened, plaster may be used 35 % temporary support For permanent support cellu ford or aluminum may be employed

In the author seight eases in which the treatment has been completed the patients are able to wilk firmly and without pain. Under the stimulus of finer tion the fibilial increases to the size of the tibus. The synostoses between the leg and tarrus and the tibus. The synostoses between the leg and tarrus and the tibus. The synostoses between the leg and tarrus and the tibus. The synostoses between the leg and tarrus and the tibus. The synostoses between the leg and tarrus and the most fibrose as a fars around of movement at the nearthrouse.

AUDREY G MORGAN MD

Odasso A Temporary Dislocation of the Joint Heads in the Treatment of Serious Septs of the Joint Between the Tibla and Astragalus (Le dislocation) temporated det capt articolar nella cuta det più grata privessis ethic dell'attricolamos (blo-astragalea) Chir d organi di movimento 1929 til 478

Temporary avail dislocation with exterioratation of the heads of the joint was one of the methods of treating septic tofections of joints used during the War. The author reports eight cases in which it gave excellent results. In cases of fracture dislocation and wounds of the ankle complexated by purelest tubotareal arthritis and serious local and general segans it is midicated to save the limb or possible even the patents is it. It may be employed along the serious of the order period of the control of the order of the victorial of the order period in parts and infection of the word which cannot be influenced by the usual mechanical and chemical treatment. In such cases it prevents the stanface of normal soft parts and the occurrence of local suppurpation and general sepsis.

The dislocation should be very free and should be done early Reduction to the correct position after the treatment must be performed with care Method ical after treatment is important. When the procedure is correctly carried out the functional results are good.

AMPRIC & MORGAN M.D.

FRACTURES AND DISLOCATIONS

Gianturco G Operative and Non Operative Treatment of Fracture of the Surgical Neck of the Humerus (Contributo al trattamento cruento ed incruento delle fratture del collo chirurgico deli omen) Chir d'organ di monuento 1020 via. 447

From 132 cases of fracture of the surgical neck of the humens in which reduction was effected under general or local anisathesia and fluoroscopic control and fixation was obtained with traction apparatus or plaster the author concludes that non operature treatment is best if it is possible. When it is not possible he does not heatafte to operate. In any per centible challengement

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In the 3 other cases there was quite marked dis placement. In r, a case of pertrochanteric fracture

or more properly speaking, detachment of the epiph vsis complicated by fracture of the surgical neck, the proximal fragment was in abduction and external rotation with its apex forward and the diaphy seal fragment was displaced upward and forward Two attempts at non operative reduction were unsuc cessful In an anteroposterior roentgenogram the position appeared to he perfect but a lateral picture showed that the diaphy seal fragment was in front of the proximal fragment. Operation and wiring were necessary The reduction was muntained best by abduction to 60 degrees external rotation of 20 degrees and anterior position of the elbow. In any position displacement of the fragments is easy. In Fadder's position of abduction to go degrees and external rotation to 180 degrees the external rotation is excessive and in Whitman's position the elevation tends to bring about displacement

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In the fifth case that of an adult with a subtu beroasty fracture the upper fragment was not ab ducted but was rotated slightly inward and its aper looked slightly forward. The distal fragment showed anternor position Complete reduction was impossible with out operation of position in a minimal reduction was almost between the complete reduction was made and the best position to maintain reduction was an about the best position to maintain reduction was an anterior position of the elbow. In this can add the fragments were easily displaced in horizontal adulte tion and in Whitman a position of elevation. A good result was obtained. Auteurs G Moson M D

SURGERY OF THE BLOOD AND LYMPH SYSTEMS

BLOOD VESSELS

Del Pino P and Masciotra R L Ligation of the Inferior Vena Cava Because of an Accident During Operation (Lg. silura de la vena cava in ferior accidente operatorio) Semana mid 1920 XXXXI 1612

The patient whose case is reported was a woman in the seventh month of pregnancy who was admitted to the hospital with a hydronephrous of the right sidney the size of an adult is head. In the course of the operation for this condition the inferior vena cave was injured and if was increasive to resect a segment of it yet in inlength. The next days a premiar of the condition of t

This case shows that it is safe to ligate or reset the inferior vena cava. A number of other cases with a favorable outcome are cited from the htera time. It is also as the safe of the safe vena vena it is to done chewhere the renal vena thori' case in which the vena case was tigated and resected below the renal ven there was no change in the blood pressure of the legs or in the unne. The only complication attributable to the ligation was the abortion. Accuracy C Viocan. M D

Brooks B Surgical Applications of Therapeutic Venous Obstruction Arch Surg 1929 XX 1

When in the course of the operation for the cure of an anieriovenous fisjula it appears evident after heation of the artery that the complexity of the condition present will prevent closure of the fistulous opening or the surgeon is uncertain of the success of his attempts ligation of the vein proximal to the fistula is imperative. When the arterio venous fistula has existed for a relatively short period and it is necessary to obliterate the artery in order to close the fistula heation of the vein is preferable in most instances and is always indicated if the artery involved is the populeal or axillary ar tery When the arteriovenous fistula has been present for a long time the collateral arterial circulation is so abundant that even though it is necessary to obliterate the main artery in the closure of the fistula ligation of the vein is unnecessary and even contra indicated While there is a certain amount of justification for the view that ligation of the vein is always preferable in the treatment of arteriovenous fistula because of the danger of pulmonary embolism from thrombosis at the site of repair of the fistulous opening in the vein the author does not accept this view

In progressive arterial degenerative disease associated with arterial obstruction, ligation of the vein is at most a pilliative measure and its beneficial effects only occasionally justify its employment

Therapeute venous obstruction finds its most valuable application in case of sudden arteral occlusion. When in the result of trauma or in the course of an operation in the course for an operation in the course for of the concentrative in a share to be considered of the concentrative in a share to be considered of the concentrative in a share to be considered between the course of the concentrative in the course of the considered in a state of the part of the course of the c

Simultaneous ligation of the ven is not to be considered the preferable procedure in all attent ligations. It is to be done only in case in which without ligation of the ven gangeree is to be expected and lis such cases the probable immediate hendicated effects preventing gangeree must be balanced with the possible remote ill effects of chronic venous staiss. Sutter Law, V.D.

Dos Santos Lomas and Caldas Arteriography of the Extremities and of the Aoria and its Ab dominal Branches (Lartérographie des membres, de l'aorte et de ses branches abdomnales). Bull d mem Soc mal de Air 1929 b. 357

The authors have made extensive researches with artenography in the luvua human humg. They is troduce sodium nodule in 25 per cent solution into the arteries of the extremies and in 100 per cent solution into the arotta. The vessel is then compressed until the reentgengam is taken. The branches of the human lartery have been readered visible for filteria mainters while a series of concess much consistent while a series of concess much made and the series of the concess and the series of the concess and the series of the series o

me injection

By this method studies have been made of the cur
culation in the extremibles in gangene side
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arthur the cutternible in the cutternible of the cutproduct arcurum. In discussing their findings the
authors cell attention to the contrast between the
rubness of the circulation in oscen articular tubercu
loss of the here and the powerty of the circulation in
syphilist, the obstruction of the humeral artery in
Vollmann parilysis which extends as for as it
bufferation the richness of the new vascularization
in sarround of the thirt, the special circulatory demaxement of the thirt, the special circulatory de-

velopment in sarcoma of the humerus which is en tirely different from that seen in osteitis, and the disappearance of the regional arteries in a case of suppurative osteo arthritis of the wrist which showed that the accompanying pecrosis of the car pal bone was not entirely of infectious origin but due also to ischæmia

For injections of a 100 per cent solution of sodium iodide general anxisthesia is necessary. For miec tions of the aorta, the site and the dose are selected in accordance with the vascular territory which is to be made visible. The dose used by the authors varies from 10 to 35 c cm, and is well tolerated

In one of the cases studied an ovarian cost was differentiated from a myoma by the absence of vas cularization of the tumor. The injection was made at the level of the first lumbar vertebra. In a case of tuberculosis of the left kidney the renal arteries were rendered visible and the roentgenogram taken before nephrectomy was similar to that made of the Lidnes. after it had been removed and filled with sodium iodide. The picture was characterized by circulatory impoverishment

The article i illustrated by five arteriograms Gosser, who presented the report before the So ciety said that he would be unwilling to employ the

method in the abdomen

Leckye who discussed the report warned against such strong solutions of sodium todide. He holds that the method is altogether too dangerous for use FLORENCE A CARPENTER

Torraca L is Ligation of an Artery free mediable? (Rappresenta la legatura di un arteria un fatto ir reparabile?) Arch stal de chir 1020 2011 601

In nineteen experiments the carotid and femoral arteries of dogs were ligated and the ligatures left on for from eighteen to one bundred and twenty hours In thurteen cases the circulation was reestablished when the ligatures were removed and on examination after from two to sixty days the vessely were found perfectly permeable and the lesson pro duced by the ligature was undergoing healing with out any trace of blood clots In six cases the artery was thrombosed Of nine experiments in which the ligatures were left on for from eighteen to seventy two hours there was thrombotic occlusion in only one (11 r per cent) In the others the circulation was re established. Of ten experiments in which the ligatures were left on for from ninety six to one hundred and twenty hours thrombosis occurred in five (50 per cent) In five the luming of the vessels were restored The probability of restoration of the circulation was therefore inversely proportional to the time the ligature was left on

Thrombosis always occurred if the vessels were bgated with large or double threads Therefore the degree of the lesion of the wall of the artery scems

to be of considerable importance

In all except one of the animals the operative wounds healed by first intention. In one animal which died from infection of the wound one of the

carouds was found permeable and the other throm bosed In another animal one femoral artery was found permeable and the other occluded, though both wounds had healed by first intention There fore infection of the tissues around the artery does not seem to be necessary to the production of throm bosis of the arters

As the arteries containing thrombi were always found obliterated and the arteries that remained permeable showed no trace of a thrombus it seems evident that when the blood did not clot the simple adhesion of the surfaces injured by the ligature was not sufficiently firm to resist the pressure of the blood current and prevent restoration of the permeability of the vessel when the heature was removed

APDREY G MORGAN, M D

Zeltlin A Investigations Reparding Vascular Stenosis Following Circular Arterial Suture and Venous Autotransplantation (Untersuchun gen ueber Gefaessverengerung bei zirkulaerer Artenennaht und Vehenautotransplantation) Arch His Chir 1020 chy, 150

To determine the immediate and late effects of narrowing of the luming of main arterial trunks on the circulatory conditions in the regions supplied by those vessels-a problem of importance particularly in vascular surgery—the author studied the immedi ate effect of occluding the luming of main vessels by degrees and also the effect of chronic stenosis of the vessels. The studies were made on the hind leas of thirty six dogs with graphic measurement of the blood pressure at the site of branching of the vessels by means of the spring manometer of Fick mean pressure and systolic pressure the most im portant characteristics of the circulation, were given chief consideration

With regard to the immediate effect of gradual narrowing of the lumen of a main vessel it was found that even when considerable narrowing was produced there was at first scarcely any detectable variation in either the mean pressu e or the force of the pulse beat With further narrowing (up to one Jourth of the original lumen) and a tolerant mean pressure, the amplitude of the heat was rapidly de pressed Only after narrowing beyond three fourths of the ong nal lumen was there an extremely rapid fowering of both pressure readings. When the sten osts was complete the pressure attained a level cor responding to that of collateral vessels The collat eral flow component evidently had little or no favor able effect on the changes in the pressure within the branch system of the corresponding main flow com ponent The high tolerance of the mean pressure and the pressure amplitude as compared with great vari ations in the lumen of the main arterial vessel depended entirely on the main flow component This fact was clearly demonstrated in collateral free extremities produced under special experimental conditions by the method of Bier and Bogoras

The late effects of chronic stenosis of the arterial main vessel on the circulation in the area supplied

were studied in experiments in which abservations were made after successful circular suture of the vessel and circular suture producing stenosis. The diagrams show that, in contrast to the almost com plete restoration of the circulation following success ful circular suture stenosis of the vessel from unsuc cessful suture led to weakening of the pulse beat although the mean pressure was maintained or even elevated Nevertheless the experiments demon strated that the narrowed main channel of arterial circulation to an extremity even when the stenosis is marked, is more effective in maintaining the blood circulation than are the collateral vessels alone, and that the diminished flow following stenosis from cir cular suture of arterial trunk vessels may be definitely improved by certain secondary processes if by

the use of a good technique thrombosis is prevented The charcal importance of this fact was shown in the case of a farm laborer thirty six years of age who fourteen months after a gunshot anjury of the right thigh came to operation with cardiac symptoms and all of the signs of an arteriovenous aneurism of the femoral vessels with involvement of several branches After resection of the entire cicatrized aneurismal portion of both vessels and replacement of the 20-cm defect in the artery by transplantation from the major saphenous vein of the same leg in which proeedure the peripheral circular suture became some what narrowed, the cardiae symptoms rapidly subsided and good circulation and function of the limb were restored. The pulse in the dorsalis nedis artery. which was very weak immediately after the opera tion began to improve on the second day and after a week was strong and full However after the fourth week it again became weaker, and after six weeks it was very weak at times being scarcely per ceptible. Subsequently it did not improve again but the patient was discharged two and one half months after the operation without the slightest disturbance

in the extremity operated upon. Aside from the form of the gunshot injury, the distant effect of the arteriovenous aneurism upon the heart, and the tolerance of the vein to autoplasty, this case is of importance as indicating that also in cases of gradual and almost complete obstruction to the lumen of an artery from slowly advancing throm bosis at the site of the suture line the operative cor rection of the arterial defect will maiatain the circu lation of the extremity until an adequate collateral circulation develops and that even after the develop ment of a sufficient collateral flow the main current which has been re established by the arterial suture will continue to support the arterial circulation of the limb as long as the trunk is at all patent. In the case reported, the restitution of the extremity operated upon could scarcely have been brought about in so short a time by the collateral flow alone

Zeitlin therefore concludes that even when sec ondary suture stenosis results, the autoplastic trans plantation of a vein to correct a large arterial defect is an effective procedure which not infrequently will R SYLLER (Z) save the hmb

Petit Dutaillis D A Method to Prevent Gerebral Complications in Operation for Ansurism of the Carotid Bifurcation Resection of the Pouch Combined with End to-End Anasto mosts of the External Carotid to the Internal Carotid (La résection de la pouche combinée à l'an astomose bout à bout de la carotide externe à la car otide enterne méthode de sécurité dans la cure des anéversmes de la fourche carotidienne) J de chir

1929 XXXIII 600 Resection of the pouch is beyond question the sole treatment applicable to ancurisms of the carotid bifurcation but the statistics show clearly the gravity of resection when the aneurism is at this site. As regards the circulation in the brain the patient subjected to such a resection is in the same condition as the nationt whose internal carotid has been

ligated The nutbor describes with drawings and dia grams, an operation which he performed in a case he reported previously. Its main indication is young aneurisms of small volume above which the tem poral pulse does not disappear completely on com pression of the common carotid. An incision from 12 to 15 cm in length is made parallel with the ster nomastoid muscle and the angurism and its vascular relations are widely exposed. The internal carotid is first disengaged very carefully and ligated with silk close to the aneurismal pouch. About 2 cm above this point a small elamp is placed. The external

carotid is then treated in the same manner To uncover the pouch completely the thyrologuefacial vein is divided between two ligatures. The digastric muscle is also divided if the aneurism is in a high position It is advisable to denude the common carotid completely at a distance from the ageurism and to pass a ligature around the ves el at this point ready to be drawn up and tied in case one of the other ligatures gives way in the course of the operation. The two carotids are sectioned as close

as possible to the upper pole of the pouch Before the anastomosis is undertaken, it is essen tial to ascertain the comparative importance of the circulation in the two vessels. This is done by loosenung the clamp a little first on one and then on the other II the distal end of the internal carotid bleeds abundantly there is no object in doing the anas tomosis and ligation of the two vessels is sufficient The anastomosis is indicated only if the flow in the internal carotid appears to be weaker than that in the external carotid. As side to side anastomosis presents about the same technical difficulties as end to end anastomosis and may favor intravascular congulation the author favors end to end anastomosis The details of the anastomosis are shown by drawings When the snastomosis is complete the pulsation in both the internal and external carotids is noted The ablation of the pouch follows care being taken not to endanger the pneumogastric and cardiac nerves if they are encountered and the trunk of the sympathetic, which varies in its relation to the pouch The superior thyroid, which usually branches off at the level of the sac is ligated. The digastric is sutured and the wound closed in lavers. with or without drainage FLORENCE A CARPENTER

BLOOD, TRANSFUSION

Bancroft, F W, Kugelmass J N and Stanley Brown M The Evaluation of Blood Clotting Factors in Surgical Diseases Ann Surg 1020

The studies reported were undertaken to deter mine the reaction of the blood clotting factors to surgical procedures and surgical diseases such as thrombosis and embolism and certain conditions characterized by bleeding

The methods by which the substances involved in blood coagulation-prothrombin, fibringen auti thrombin, and platelets-and the degree of platelet lysis were determined are described. The index of blood clotting function was calculated from the composition of the clotting components. The authors give a classification of diseases in which the blood clotting function is altered

Eleven proved cases of thrombosis, phlebitis or embolism were studied. All showed a high clotting index and a low antithrombin value. A high clotting index was presented also by a small percentage of postoperative cases in which the occurrence of thrombosis or embolism was not proved

Experiments on animals have demonstrated an increase in the clotting factors following postonera tive infection and gangrene and a smaller increase following ether anasthesia

Pre tonsillectomy studies were made on three groups of patients (1) those with deficient clotting (2) those with normal clotting previously suspected to be bleeders and (a) nutritional bleeders treated by diet

The prenatal measures for the prevention of hamorrhagic disease in the newborn are described Analyses of diets to increase and decrease the clotting function are given Experiments on animals

have shown that the tendencies to bleed and clot are definitely influenced by diet HOWARD A MCKNIGHT M D.

SURGICAL TECHNIQUE

OPERATIVE SURGERY AND TECHNIQUE. POSTOPERATIVE TREATMENT

Blair \ P and Brown J B The Use and Uses of Large Split Skin Grafts of Intermediate Thick ness Surg Gynee & Obst 1929 xbx 82

A full thickness graft is appropriate for a freshly made clean raw surface where substantial protection maximal mobility, minimal subsequent con traction and the most natural appearance are essen tral This type of graft is indicated for such situa tions as the front of the neck, certain parts of the face, the flevor surface of joints that can be flexed and webbed fingers and for the release of arms fixed

to the trunk following burns

For fresh granulating surfaces freshened scar sur faces surfaces that will resist subsequent contrac tion the authors choose thinner grafts funless ap pearance and the demands of function contra indicate their use) because of their comparative aimplicit) and their greater certainty of take On the back of the band except over the knuckles and on the subcutaneous muscles of the face the orbicularis oris and orbicularis palpebrarum a split graft of some thickness is best

The Ollier Thierich graft is supposed to include little more than the epithelial layer and will heal in

practically all cases

The thinner grafts require less time and skill than full thickness grafts. When a thin graft is used the raw area bouls in about ten days whereas when a full thickness graft is employed postoperative care

is usually necessary for three weeks

A thin graft, if inaptly applied may not give suffi cient protection to a bearing surface or because of its thinness may not correct the inequalities of the underlying surface. If it is placed on a raw surface with a movable base and movable edges such as the subcutaneous tissue of the neck it may subse quently contract as much as 60 per cent without loss of enthelium The contraction is due to the layer of scar tissue below

Great care is necessary in the preparation of the areas to be grafted A plastic operation is contra indicated by any acute purulent skin eruption. A pimple even on a remote part of the body means lowered resistance of the host. All scurl and scales should be removed the day before the operation

The authors apply picric acid or r per cent mer curochrome on all surfaces that will not be exposed

In the pose, they use indine In the preparation of bare and granulating areas

it is important to apply damp and absorbent dress lags These must not be allowed to dry in place and must be changed sufficiently often They must be applied firmly and comfortably

Thin or moderately thick skin grafts grow readily on a clean granulating surface but the authors have found that they will do much better if the grapula tions are sliced (not scraped) down to the underlying vellow scar base and the whole area is covered with large grafts put on with proper tension and pressure

As a rule the authors obtain the grafts from the inner and outer surfaces of the upper half or twothirds of the buttocks or the front of the abdomen The graft is cut large enough to cover the area and to extend beyond its edges. It is cut with a long razor ground knife. The skin is held tense and flat by traction pressure of small straight edged pads above and below the knife. At times especially in the cases of thin patients with flabby muscles a suc tion retractor is also employed

The graft is applied as soon as the bed is prepared. It is put on to overlap the borders of the defect If more than one graft is necessary their borders over lap Grafts are held in place under normal lateral tension by basting or whipping stitches of horsehair After a graft bas been sutured holes are cut through

at to ensure the drainage of blood scrum

The dressing of such a wound is very important The authors apply two layers of vaseline gauze next to the graft and under the pad The vaseline is made with 3 per cent xeroform On uneven surfaces large flat damp marine sponges which do not touch the bare skin are applied evenly over the gauze pad The first dressing is allowed to remain for from

four to ten days Serous accumulations and clot

formations are evacuated

In certain areas as within the mouth on the eyehd and on the hp the authors use a graft wrapped around a war form with the raw surface outward I ateral tension is obtained by the friction of the graft over the wax In turn the tissues to be grafted are sutured under tension around the graft covered form which furnishes the desired pressure

The donor area is dressed by the application of six smooth flat layers of vaseline xeroform gauze toy ered with a flat gauze pad and strapped in place with adhesive At the end of the muth day the original dressing is lifted off or is souled loose by a wet pack If the graft was not cut too deep the area is usually found to be healed LABLE I GREENE M D

ANTISEPTIC SURGERY TREATMENT OF delible Pencil (Nécrose aseptique par le crayon

WOUNDS AND INFECTIONS Aseptic Necrosis Caused by an In Witmoth P

daniline) Presse med Par 1929 vexvii 700 701 The middle portion of the internal border of the foot of a thirteen year old girl was pierced by the point of an indelible pencil when the child was walk ing barefoot. The point of the pencil broke off and remained in the flesh. There was slight bleeding but as the wound appeared to heal normally no at tention was paid to it until ten days later when swelling and bluish discoloration of the skin ap peared Under treatment with moist dressings and hot local baths the overlying skin ruptured and a dark violet blue fluid escaped This occurred three times, the terument to forming on each occasion Then, for the first time the child complained of main in the swollen area Six weeks after the accident, the foot presented piceration over an area measuring 5 by 4 cm Surrounding the ulcer there was a narrow zone of mortified yellow skin detached from the underlying structures The base of the ulcer was composed of an anterior layer which was red, and a more extensive layer which was violet and con tained numerous sometimes confluent dark blue islands A dark violet fluid oozed from the lesion

Fortunately, the accident with the aniline pencil was known. The entire ulcerated area including the zone of yellow skin around it was existed down to the aponeuron layers. It was impossible to unite the lips of the operative wound. Healing occurred by second intention. At no time were any fragments of the aniline pencil point extruded. They were apparently entirely dissolved.

The author states that the causic and torue propcities of the miteral used for indelible pencis thould be made known to the general practitioner and the public. The treatment of injunes from such pencils is immediate removal of the fragment that has pencil trated the skin with excision of the track it has amount trated the skin with excision of the track it has amount to the substance with the state of the substance of of the substance was purely local but cases of general intoucation have been reported. However, the supplies of chemical necross is the result check the supplies of chemical necross is the result check the before the supplies of the supplies of the substance of the amputation of a finger was necessary.

FLORENCE A CARPENTER

Hogenauer F The Presence of Virulent Tetanus Bacilli in a Case of Cured Tetanus (Ueber das Vorkommen virulenter Tetanusbacillen bes einem geheilten Tetanusfall) Wien med Wehnschr 1929 1 448

Tratuma may cause a recurrence of tetanue sezures seven years or longer after the primary attack. This is usually the case in recurrences. A few cases are known also in which following a cured attack of tetanus virulent retanus bacilli were found on foreign bother removed at a later date the hazilli, having remained in the body without cansing symptoms for a long time.

The author reports a case of cuted tetanus in which when a spiinter of wood was removed from the forearm two and one half months later, virulent

tetanus bacilli were found upon it

The phenomenon may possibly he explained on the basis of an acquired active or a passive immunity produced by large doses of serum. However, the active immunity, ie the production of antitosius in

the organism, is so slight that it is not lasting. This is proved by the many recurrences of tetanus Recovery from an attack by no means protects from a new attack The injected antitovin is excreted rapidly in proportion to the dose given. It is im probable its effectiveness lasts for two months. How ever the phenomenon under discussion cannot be explained in this manner. It depends upon whether the tetanus bacilli are able to produce sufficient toxin or the wound and cicatricial conditions permit resoration. A secretary surface of granulating tissue (a dense scar) may prevent resorption explains how the tetanus may break out again follow ing operative interference. It is possible that the tetanus bacilli present in the original wound may for a long nettod or at least temporarily, secrete very little or no toxin

Two factors are of importance for infection the wound conditions, which favor diffusion of the town formed and the resistance of the organism

In the cases of carriers of tetanus baselli, the removal of foreign bodies is to be attempted only after thorough serum prophylaxis

HELMOT SCHMIDT (Z)

ANÆSTHESIA

Davies If W Therapeutic Uses of Carbonic Acid Edinburgh If J 1929 xxxx1 385

Formerly regarded as merely a waste product of metabolism carbonic acid is now known to play an important rôle in regulation of respiration, control of the circulation of the blood and main tenance of the normal acid base balance of the

blood and tissues

The safest and most efficacious respiratory simulant for therapeutic purposes is carbon doxide. The addition of a small amount to the impired air will increase the resting respiratory volume to double, treble or even more more addition of 5 per cent of carbon dovide to the inspired air will lower the oxygen percentage. With samount of carbon dovide there is to appreciable increase in oxygen consumption and as the result of the greatly increased lung ventuation the percentage of oxygen in the alveolar air and hence oxygenation of the arternal blood is actually increased.

The value of carbon dioude as an adjuvant mether anasthesia is recognized. By the addition of carbon doubte to the inspired air the anasthetist is able to control the amount of pulmonary ventilation. By means of the increased ventulation the absorption and elimination of ether is accelerated.

In a series of cases in which carbon dounde was used during the induction of ether anxisthesis and throughout the operation, the incidence of severe postoperative woming was greatly diminished whereas in two series of cases in which little or no carbon dioxide was used there was considerable severe vomiting.

In carbon monoxide poisoning, in which there is a marked reduction in the carbon dioxide content

of the blood, the impairment of the circulation and alkalosis can be relieved by the inhalation of air containing 5 per cent carbon dioxide

In high altitudes there is no impediment to the removal of carbon dioxide. Alkalosis therefore results. Carbon dioxide is very heneficial in this condition.

Carbon dioxide is of value also in collapse and shock following prolonged operations and in heat stroke

Like I Greene MD

Kelly F A The Clinical Aspects of Controllable Spinal Anaesthesia But V J 1930 h 187

The author reminds us that the objections to spinal anxieties have been overcome by the addition of pladin to the solution to render it more viscid and thereby prolong the anxieties and by titing of the table to control the height or extent of the anxieties, and by the daministration of ephedin before the spinal injection to control the secure drop in the bodo pressure. If the anxieties are drop in the bodo pressure. If the anxieties are seen that the secure of the secure o

result because all of the vasomotor nerves control ling the blood vessels are given off from the second dorsal to the third lumbar segments

The author uses the titlometer devoced by Pittus to control the extent of the anvesthesa. For low ancesthesa," half an ampoule of symecan is in pected into the fourth lumbar interpace and the patient is topped immediately into at least a visual state of the state o

stop its upward movement. The author finds no contra indications to lumber annexthesia except in persistent thymus and an absolutely moribund state. He relieves the post operative headache by giving a retention cema of 6 or of a 50 per cent magnesium subhate toliution.

PHYSICOCHEMICAL METHODS IN SURGERY

ROENTGENOLOGY

Brams J, and Darnbacher L The Effect of the Y Rays on the Gall Bladder The Experimental Production of an \ Ray Cholecystitis Rads ology, roso xiii ros

In reviewing the literature, the authors were un able to find any reference to a destructive action on the gall bladder by irradiation. To determine the possibility of producing a roentgen cholecystitis they exposed a series of dogs to various dosages of roentgen rays by a technique described in detail The findings made at necropsy led to the following conclusions

1 A definite acute and chronic cholecystitis can be experimentally produced in dogs with dosages of roentgen rays that are within the range of those used for therapeutic purposes

2 The changes produced are destructive They consist of hamorrhage inflammatory cedema, round cell infiltration fibrous tissue hyperplasta, and in some instances necrosis of the epithelium and resemble the type of cholecystitis produced by chemi cal means

The relative lack of injury to the exposed por tion of the duodenal and pylorie mucosa indicates that the gall bladder epithelium is comparatively more sensitive to roentgen ray exposure than the other organs in apposition to it

4 The possibility of injury to the gall bladder from deep therapy in the region of the right upper quad rant of the abdomen must be borne in mind

RADIUM

ADOLPH HARRING M D

Russ S and Scott G M Radium and Radon Tubes Brit J Radiol 1929 it 390

The authors report research undertaken to determine how much it is possible to reduce the con centration of radium and radon tubes for embed ding without interfering with their ability to cause the disappearance of malignant growths Most of the experiments were performed on Jensen's rat sarcoma Platinum tubes of various sizes containing either radium or radon were inserted into tumors that were growing rapidly Several series of ex periments were carried out with tubes varying in length from 0 7 to 4 cm and with an active length varying from 0 5 to 3 cm In general the tubes were inserted lengthwise in the central portions of tumors from 12 to 18 mm in length and from 10 to 17 mm in width The wall thickness of the tubes was usually 0 3 mm but in a few instances it was 0 4 mm The tubes inhibited the growth of the tumors and

if the dosage was large enough they stopped it com

pletely As the intensity of the dosage was reduced the lethal range of action decreased appreciably A short seed with an active length of 5 mm in a screen 7 mm long with a wall thickness of o 3 mm of platinum and a concentration of 4 mc per centi meter of active length was certain to cause the disappearance of a tumor measuring to by ro mm Such seeds were left in place for ten days When longer tubes were used the intensity of irradiation per centimeter could be very much reduced without interfering with the lethal effect. A tumor measuring 14 by 12 mm was destroyed with a concentration of only o 72 mgm of radium element per linear centi meter, which is less that a quarter of the concen tration required in tubes with a length of o s mm The tumors continued to grow for a few days after

the tubes were inserted. The rapidity with which they disappeared varied enormously It was found that a turnor which had been in radiated for the length of time necessary to cause its disappearance would grow if small pieces were taken from its edges and inoculated into young rats Growth occurred in a large percentage of such trans plants although if the tumor had been left in the original animal it would have disappeared transplants were slow to hegin growing and grew slowly

The effect of irradiation of the surrounding normal tissues in inhibiting tumor growth is difficult to estimate but as previous experiments showed that tumor cells grow with less vigor in irradiated tissues it is suggested that irradiation of normal tissues plays some part in the disappearance of tumors A JAMES LARED MID

Lacassagne A assagne A The Importance of Filtration and the Superiority of Pure Gamma Radiation in the Radiotherapy of Malignant Tumors Radiology 1929 XIII 95

The author reviews the development of the use of the ultra penetrating gamma rays as opposed to the composite rays Pure gamma rays emerge from a o s mm screen of platinum and composite rays from screens of lesser thickness Composite rays cause more necrosis of all tissues Pure gamma rays cause only minimal necrosis of normal tissue and have a more selective action on cancer cells

The first exponent of the use of purified gamma rays was Dominici Dominici said The alpha rays do not penetrate deep tumors the beta rays barely teach them and are absorbed in the superficial lay ers, while the gamma rays pass completely through neoplastic tissue and even beyond it. The alpha and beta rays are therefore useless and dangerous

Studies of the tissue reactions immediately sur rounding radon units which were undertaken at the Radium Institute of Paris established the following

facts

r The diameter of the zone of necrosis produced
in any tissue by an unfiltered ridon unit is not con
stant. It increases with the intensity of the irra
diation to a certain fixed limit.

2 The diameter of the area of necross occurring around a filtered radon unit is smaller the greater the filtration. Light millicuries in glass produce an area of necrosis with a radius of about 6 mm. When a filter of o 15 mm of platnum is used the radius of the area of necrosis is only 4 mm and when a filter of the area of necrosis is only 4 mm and when a filter of the area of necrosis is only 4 mm and when a filter of the area of necrosis of the state of

The author therefore concludes that we may employ aunit containing r 5 me of radon with filtration by 0.15 mm of platinum, a unit containing 8 me with filtration by 0.4 mm of platinum or a unit of nome with filtration by 1.7 mm of platinum without

causing immediate necrosis

Radium necross is the result of a caustic effect upon all tissues within a given radius of the radio active source. It includes the supporting connective tissues blood vessels, and nerves the strated muscle in the tongue the elements of bony structure the skin and mucous membranes and the walls of hollow viscera. In addition, local infection by accident is not uncommon.

Against the argument that the destruction of the tumor en masse by means of the beta rays insures a more certain disappearance of the tumor cells the author argues that the action is only that of a radio active caustic which is most langerous most difficult to control and most expensive, and has no ad

vantages over other caustics. If it is not admitted that certain kinds of malignant cells are destroid by a selective action of \(\sigma\) and gamma radiation the rathotherapy of malignant tumors should be abandoned as inferior to other therapeutic methods. If it is necessary to destroy all neoplastic cells in the radiotherapy of mulignant tumors, the preservation

of normal tissues merits equal consideration The technique by which purified gamma radiation is employed makes use of needles designed for radium puncture with ultrapenetrating radiation These needles are made of platinum and have a wall thickness of o c mm Use is made also of platinum tubes with a wall thickness of 1 or 1 5 mm which are designed for radium therapy within cavities reached through natural channels and for external cunether apy with the use of molded supports. The average duration of exposure with these two types of appheators is seven days. The needles contain 2 mgm of radium or 2 me of radon while the tubesordinarily contain 15 mgm or me In treatment of the sim a plastic mixture of paraffin wax and sawdust is used to maintain the applicator at the proper dis tance and to absorb secondary rays Another type of applicator used for purified gamma radiation is a unit of 4 gm of radium which is placed at a distance of 10 cm from the skin and filtered by r mm of platinum

In conclusion the author states that curetherapy with pure gamma irradiation offers the same tech ancal possibilities as composite irradiation and is more effective. It pushes back the threshold of raddium necrosis and permits the administration of much stronger doses of irradiation with selective as too on cancer elements. A Jawrs Lanch VID.

MISCELLANEOUS

CLINICAL ENTITIES—GENERAL PHYSIO-LOGICAL CONDITIONS

Strong L C Transplantation Studies on Tumors
Arising Spontaneously in Heterozygous In
disiduals I Experimental Eridence for the
Theory That the Tumor Cell Ilas Deviated
from a Definitive Somatic Cell by a Process
Analogous to Genetic Mutation J Concer
Recents, 1020 xm 102

Strong presents experimental evidence for the thory that the tumor cell has deviated from a definitive somatic cell by a process analogous to genetic mutation. The two tumors employed in his experiment (mammary gland medullary carcinomata) were quite different physiologically and presumably different genetically despite the fact that they were made that the process of the process of the protable that they have a superior of the protable that they have the process of the protable that they have the prolated that they have the protable that they have the pro

If it is assumed for the sake of argument that one of these tumors possessed the same genetic con stitution as the mouse tissue from which it grose then the other tumor tissue could not have that constitution. This assumption is a valid one since the recent interpretations of histogenesis would lead to the conclusion that qualitative cell divisions do not occur in animate forms Every cell of the adult body is supposed to be endowed with the same genetic potentialities. Since therefore one of the tumors must have a different genetic constitution from the mouse tissues in which it originated it must bave deviated presumably by some such a process as genetic mutation from the somatic tissue from which it arose TACOR M MORA M D

Salomon A How Stiould Angiomata Be Treated? (Wie sollen Angiome behandelt werden?) Zischr f aer il Foribild 19 8 xxv 59

Three linds of tumors of the vessels are dust updated the differentiation being of importance from the standpoint of iteration (1) simple red any montal consisting of hypertrophed cipullaries (rel angiectase) (2) cavernomata composed of large blush bollow spaces (similar in construction to the corpora cavernosa penus) and (2) so called cread anautisms consisting of arternal vessels. The lat named are solilom observed and can be removed if at all only by operative means.

In the few input of blood sessel tumors it a yelloportant to know whether the neoplasue trusse extends only superficially in the cutts or down into the subsubaneous tassee and whether there is a sharp de marcation or diffuse extension. For superficial tumors (new seculos), conservative methods usually more increased to the control of the control of

sidered as a rule, as removal of the cutaneous portion of the tumor alone is of no use. The age of the pattent (blood vessel tumors are most common in in fants and young children) and the location of the neoplasm (on account of the cosmetic end result) are factors in the choice of treatment.

The growth of shoot vessel tumors is often rand. The growth of shoot vessel tumors is often rand. The growth of shoot vessel tumors is a possible. For all deep subcutaneous angiomata and for the larger superficial moles excision is without doubt the best and most certain method. Conservative treatment takes too mucb time. A disfiguring scar must be avoided and the defect must be such as can be be avoided and the defect must be such as can be closed easily by suture or by a simple plastic procedure. Because of the danger of currence removal must always be radical literative processes of the such as often pression and deep sutures. According to Lever, it is operation. In cases of tumors of blood vessels of the face (carotid region), temporary ligation of the face (carotid region), temporary ligation of the

carotid may be necessary Angiomata of the orbit and those that communi cate with the interior of the skull are best treated con servatively at first Conservative methods are (r) measures producing inflammation and thrombosis (the application of intense cold by carbon dioxide snon roentgen and radium irradiations (2) meas ures that destroy the tissue directly (the use of ther mocautery and strong caustics), and (3) measures that cause blood coagulation primarily (the injection of alcohol and electrolysis) For treatment with carbon dioxide snow the apparatus described by Pfreund and Strauss are convenient but good results may be obtained with an improvised apparatus (ear speculum etc) In the cases of young children, the duration of the treatment should be from ten to thirty seconds and in those of adults twice as long A piece of linen covered with ointment should be

applied to the frozen skin Small moles may be removed by the roentgen ray hut this treatment is unsuitable for extensive disfig uring moles on the face as the cosmetic result is fre quently poor (atroph) of the skin with telangiectation formations) Better results are frequently obtained with the Finsen method and the use of the Kromayer quartz lamp but radium irradiation is the most suc cessful Ideal results, bowever are rare Flat cuta neous moles which are not too large may often be re moved with the Paquelin cautery (needle point) Deep punctures from o 5 to 2 cm apart are made under anaesthesia Frequently the cosmetic results are fair but as the necessity for repeated punctures sometimes leads to deep unsightly scars the proce dure is to be regarded as old fashioned and should be replaced by excision whenever possible

53

Pierre (Z)

Trichloracetic acid chromic neid sublimate col lochon and furning mitric acid are used as chemical escharotics The scars which they leave are usually

parchment like and unsightly

To produce blood coagulation from a 5 to 2 c cm of a 70 to 80 per cent solution of alcohol may be in jected directly into the cavernoma. The injection is begun at the periphery and continued systematically It is repeated at intervals of a neek A trial may be made with a strong solution of dextrose instead of alcohol (as in the treatment of varicose veins). Sometimes this procedure combined with the use of car bon-dioxide snow is successful Flectroly six also may give good results particularly in spider like angio mata, but it is tedious and painful. In cases of deep angiomata particularly those on the face Payr's procedure, larding the angioma with magnesium needles frequently gives good results

The art of treating blood vessel peoplasms consists in determining the best and simplest procedure for the particular case-if necessary, combining serv

eral methods

Ranser, R The Problem of Malignant Tumors (Leber das Problem der boesartigen Geschnuckte) Arch klin Chir 1928 chi 13 249

Hanser summarizes bis findings in the microscopic examination of Ifaidenhain's so-called inoculation

tumors in mice as follows

The most varied starting material—carcinoma (squamous epithelial earcinoma or glandular carcinoma) and sarcoma (soft tissue sarcoma osteoid sarcoma, osteochondrosarcoma)-gave positive re sults on inoculation, regardless of whether the pri mary tumor or metastasis was used

The form of the moculated material whether fresh broth or warm cold or diluted autolysates was immaterial Moreover the length of time it remained in the incubator played no recognizable rôle. This point is important in the question of the inoculation of hving or dead cells

3 There was no constant relationship between the number of implantation experiments and the

successful results obtained

4 The starting material, whether carcinoma or sarcoma gave rise to this or that tumor form with indeterminable variation. The impossibility of a definite histological classification (carcinosarcoma) of the results is therefore readily understandable

5 The site of inoculation was of no importance as regards the site of the obtained tumors Accord ingly it was not a transplantation even when the

tumor appeared at the site of the inoculation 6 The time of development of the moculated tu mors varied between the extremes of two and twenty three months The average time was one year

7 There were individual cases in which, ande from metastases two tumors appeared that, on the hasis of their different structures must be considered entirely separate growths

8 Aside from human tumors, neoplasma from animals were used with success in these experiments in the production of malignant growths (not transplants) in inoculated animals

In the discussion of this report LUBARSCH ex pressed the opinion that Haidenhain's mouse tu mors were actually inoculated and not spontaneous neoplasms He disagreed with Haidenhain's con clusion that his experimental results proved cancer to be an infectious disease OSEAR MEYER (Z)

Mason M L Carcinoma of the Hand And Surg. toro xviii 2107

Carcinoms of the hand, a condition of advanced years occurs more frequently in the male than m the female and with the exception of roentgen car conoma more often on the right than on the left hand The majority of carcinomata are located on

the dorsum of the hand

It is convenient to divide these carcinomata into four large groups depending on the etiological factors present. In Group A are those arising from trestation, trauma, acars treaduction etc author has made a separate group A1 of the arradiation carcinomata because of their large number and importance In Group B are the carcinomata arising from some previous growth-B', congenital and B' acquired In Group C are those appearing on the previously unchanged skin In Group D are those cases in which data are too meager to allow classification. If roentgen and radium carcinomata are excluded Group A makes up two fifths and Groups B. C. and D each one fifth of all reported cases of carcinoma of the hand Irradiation would probably account for 30 per cent of these carcinomata. All but a very few of the carcinomata are of the squamous cell type and therefore serious

The diagnosis may be difficult even with mi croscopic section. The clinical course and history are of value in reaching a decision Many granuloma tous lesions appear to be in reality carcinomata in which frozen section is negative for malignancy

The prognosis is in general fay orable in the cases of Groups A and C fair in those of Group B , and very poor in those of Group B In cases of roentgen carcinoma the prognosis is good providing all in volved tissue whether carcinomatous or not is re moved Conservative measures are usually successful if they are promptly carned out and radical surgical treatment is needed only in neglected cases, with the exception of cases in Group B in which radical surgical intervention is advisable from the start In carcmoma arising from roentgen dermatitis in which multiple areas of keratosis are present, it is imperative that all keratotic spots be excised

The author reviews the literature and reports

tuenty five cases

Carlson H A and Bell E T A Statistical Study of the Occurrence of Cancer and Tuberculosis in 11 195 Postmortem Examinations J Cancer Research 1929 XIII 126

The study of Carlson and Bell seems to indicate that active tuberculosis is much less frequent in cancerous than in non cancerous subjects and can cer is much less common in persons with active tuberculosis than in those without tuberculosis or

with healed tuherculosis

However active tuberculosis is even less frequently associated with heart disease than with cancer and cancer is less frequently associated with heart disease than with active tuherculosis

These findings do not mean that active tubercu losis inhibits the development of both cancer and heart disease They are due to the fact that the majority of persons with active tuberculosis bave no other major illness and therefore the controls without cancer or heart disease must have a higher

incidence of tuberculosis The authors have found no statistical evidence to support the view that there is an antagonism between

cancer and tuberculosis

The only proper control for the association of active tuberculosis and cancer is the incidence of active tuberculosis in some other disease

IACOR M MORA M D

GENERAL BACTERIAL PROTOZOAN, AND PARASITIC INFECTIONS

Rich A R and McCordock II A An Inquiry Concerning the Role of Allergy Immunity and Other Factors of Importance in the Patho genesis of Human Tuberculosis Bull Johns Hopking Hosp Balt 1929 Alis 273

The authors discuss natural species resistance or susceptibility to different types of tubercle bacilli, differences in natural resistance or susceptibility to the same bacillus in different individuals of a citen animal species acquired resistance to the tubercle bacillus the underlying mechanism of allergy the possibilities of the final outcome of the tubercle and the possibilities as to the outcome of the allergic

inflammatory reaction Natural species resistance or susceptibility to differ ent types of tubercle bacills Different types of bacills -human bovine etc -affect a given species of animal with different intensity. In their studies the authors used a standard virulent human bacillus H₃₇ a standard human bacillus of low virulence Rt a standard virulent bovine bacillus Bs an avian strain and a non pathogenic acid fast bacillus (timothy) They state that when rabbits are in fected with moderate and equal doses of H₃₇ and By those receiving the bovine bacilli develop ex tensive and rapidly fatal lesions while those receiv ing the human bacilli which are however extremely virulent for guinea pigs may live indefinitely and at necropsy show at most isolated slight lesions. Thus the guinea is susceptible and the rabbit resistant to H37 whereas both are susceptible to Br, the rabbit somewhat more so than the guinea pig If moderate and equal doses of H37 and Rr are given to different guinea pigs those infected with H37 invariably die of widespread tuberculosis while those infected with R1 practically always survive. Even

when the dose of RI is increased to many times the lethal dose of Hay, the disease will not spread progressively to a fatal termination. Accordingly there is a difference in virulence in different strains of the same type of human bacillus This difference in virulence has nothing to do with species resistance or susceptibility for any species which is susceptible at all to Hay will be correspondingly less susceptible to Rr

Difference in natural resistance or susceptibility to the same bacillus in different individuals of a given animal species. Of any large series of animals of approximately the same size inoculated with the same amount of any type of tubercle bacillus by any route someshow marked variations from the average in the extent of the lesions although in general the senes will present a fairly uniform pathological pic ture after a given lapse of time Lither a natural resistance is developed to a different degree in dif ferent individuals of the same species or the stand ard degree of patural species resistance becomes al tered in individuals by uncontrollable conditions of

nutrition and bodily well being

Since there are definite differences in the virulence of a given type of bacillus and just as definite natural species susceptibility and resistance to any single given strain, virulence may be regarded as merely the relative ability of the particular strain of tubercle bacillus under consideration to grow in normal individuals of an animal species which is naturally susceptible to the type from which the strain in question is derived. No consideration of virulence is possible without a consideration of the host It is always necessary to ask "Virulent for what animal? The relative virulence of different strains of the same type can be tested only upon an animal species which is naturally susceptible to that

Accurred resistance to the tubercle bacillus animal infected with a sublethal dose of tubercle bacilli becomes after some days protected against subsequent infection with much larger doses of bacille than it could have tolerated originally. In rabbits and guinea pigs resistance may he acquired by infection with either virulent or avirulent human or bovine bacilli, regardless of the animal's original susceptibility to the infecting organism Resistance so acquired will protect indiscriminately against sub sequent moculations of virulent human or virulent bovine bacilla regardless of the animal's original sus ceptibility to the organism of reinfection resistance is not type specific

Opinions differ as to the mechanism of acquired resistance Many investigators believe that resis tance acquired through infection is largely a result of allergy, which also appears shortly after infection The infected body undergoes a change which renders the relatively bland protein of the tubercle bacillus capable of acting upon its tissues as a powerful urntant and poison As a result of this change the cells of the allergic body are more extensively damaged and killed by a given amount of tuberculo

protein than the cells of the normal body. Because of this enhanced irritant action of the tuberculoprotein on allergic tissues, and because of the resulting more extensive damage and death of cells, there appears a more wolcant acute indammation at the appears a more wolcant acute indammation at the appears a more wolcant acute indammation therefore constitute the focal walls of action of influence inflammation therefore constitute the local vasible expression of the action of allergy Constitutionally, the greater irritative effect of acute the focal walls of the beautiful acute the foreign constitutionally, the greater irritative effect of the constitutionally action which is that fever a men allergic Cody is manufested by the fact that fever a men allergic Cody is manufested by the fact that fever a men allergic Cody is made and the constitutional way in the blood stream of the allergic Cody.

If the term 'allergy is restricted to the acquired hypersentiveness manifested by the tendency to react locally to the bacilius with evidence to react locally to the bacilius with evidence inflamma and to react constitutionally with fever makine, and prostation it may be said that, in spite of the very common identification of allergy with immunity there is no proof whatever that this hypersensitive ness is responsible or necessary for the delayed appead of not the more prominent death of the

bacilly in the infected resistant body

What the mechanam is which holds the bacillo is reinfection at their site of lodgment is unknown. The local fixation of bruilli is not a mechanical result of the allergie inflammation. The study of lymph nodes drawing the site of allergie inflammation plenos in the human being with acquired resistance lemons in the human being with acquired resistance and debris drained from the leroons. Bacilla are actually herd difficult to find in such nodes. It seems clear therefore that if the bacilla are actually held fixed locally in the lesion drained by the nodes it must be by means of some specific (precipion like?) mechanism which does not interfer with the free movement of other particulars matter and not interest many the model of the particulars matter and not increased.

If allergy is the mechanism of resistance allergy should be less highly developed in animals treated with dead bacilli in comparison with the hyper sensitiveness of animals which are more highly resistant because of infection with living bacilli On the contrary however inoculation with dead bacilli produces a degree of hypersensitiveness as great as that evoked by inoculation with living bacilli a hypersensitiveness which is durable Although an animal inoculated with dead bacilli develops just as marked an allergic hypersensitive ness and exhibits just as marked allergic inflamma tory reactions as an animal inoculated with living bacilli the ability of the former to cause the death of the bacillus and to hold its growth in checkimmunity-is distractly less than that of the latter The death and the restriction of growth of the bacil lus must therefore be effected by some mechanism separate from that of the allergic inflammation an independent mechanism which does not always

parallel in intensity the development of allergic by persensitiveness

The underlying mechanism of allergy It is gener ally believed that the most probable explanation of allergic inflammation and necrosis in tuberculosis is that the condition is the result of an antibody antigen reaction in which the bacillary protein con stitutes the antigen which reacts with an antibody formed during infection. According to this view the cells of the sensitized body might be perfectly normal and the plasma and tissue fluids contain an antibody capable of acting on the bacillary anti-en to yield an irritating substance toxic for the normal cells A second possibility is that the active antibody does not exculate freely in the body fluids but is bound to the tissue cells in such a way that the antigen antibody reaction leading to the formation of the anjurious substances takes place actually within or upon the cells. A third possibility is that the production of cellular damage through allergic hypersensitiveness is a result of an antibody antigen reaction dependent upon antibodies present both in

the tissue cells and in the body fluids. In the authors opinion no plasma antibody is necessary for the damage and death of allerge cells exposed to tuberquin, the individual cells of the various tissues of the allergie body are themselved actually by personautive to tuberquiporteen. Allergresseds in the cells II is probable that the local allergie reaction in tuberquious is of the deep research of the cells II is probable that the local agree of the cells II is probable that the local agree of the cells II is probable that the local agree of the cells II is probable that the local agree of the cells in the cells II is probable that the local agree of the cells agree of the cells agree of the cells in the cells of the cells in the cells of the cells of the cells of the cells in the cells of the cells which renders them highly susceptible to damage by contact with tuberquiporteen.

exact nature of this change is at present unknown.
It is not definitely known whether allergy, once established is ever completely lost. Hypersensitive ness may be said to disappear in certain cases often

to return with renewed vigor

Residence in the allergic resistant body does not change the bacilius of infection so that when it is introduced into a normal animal it will produce a lesion in any way different from that which it

originally produced

The possibilities of the final outcome of the tuberde

These possibilities are as follows

1 The bacilli may all die and the whole tuberde
become converted into a hyalinized mass. If there
has been necrosis the necroic tusine may become

calcified or even ossified

2 The bacilli may remain alive in the center, encapsulated by a wall of hyahne scar tissue

3 The tubercle may undergo widespread necrosis with spread of the proliferating bacilli to the sur rounding tissues

4 The tubercle may resolve and be completely absorbed leaving no trace

The possibilities as to ile outcome of the allergic

If the reaction is mild and all bacilli are killed. the inflammatory exudate may be completely absorbed and the site restored to normal

2 If the reaction is mild and the bacilli remain alive at the site much of the inflammatory exudate will be absorbed but a tubercle or group of tubercles

will develop about the remaining bacilli

3 If the reaction is initiated by a farge number of bacilli and is accompanied by extensive necrosis, every degree of partial or complete connective tissue encapsulation and every degree of tubercle forma tion may be found depending upon the number of bacilli that remain alive in the necrotic mass and infect the per pher /

The most prominent immediate reaction of the uninfected animal tends to be the problerative tubercle, and that of the allergic animal an exudative inflammation but with the proper dose properly placed either the allergic or the non alleraic body can be made to react with either exudative inflamma

tion or tubercle formation

Miliary tuberculosis is not always produced by the sudden rupture of a tuberculous focus into a large blood or lymph vessel The different sizes of tubercles seen in a given case do not indicate suc cessive showers of bacilli resulting from successive audden eruptions of auch foci into vessels Miliary tuberculosis must be regarded as nothing more or less than the result of a septicaima with the tubercle SAMLEL KARN, M D bacıllus

DUCTLESS GLANDS

Hyperparathyroidsm Tumor of Wilder R M the Parathyroid Glands Associated with Osteitis Fibrosa Endocrinology, 19 9 xill 231

Wilder describes a case of osterus fibrosa in which conditions attributable to excessive parathyroid activity occurred in association with a mahignant parathyroid adenoma The condition was char acterized by progressive weakness loss of muscle tone anamia pain in the bones decalcification of the skeleton associated with an increase of the organic matter and foreign body grant cell tumors. hypercalcamia and hypophosphatamia Four sim ilar cases reported by others are described

To some extent at least the disease is combated successfully by treatment with ultraviolet light and a diet rich in Vitamine D The suggestion is made that Vitamine D may inhibit the activity of the

parathyroid glands

The surgical removal of the parathy rind tumor in the case reported was followed by marked improve ment in strength and muscle tone relief of the pain in the bones increased calcification of the hones and the disappearance of a tumor of the maxilla

Wellbrock W L A A Malignant Adenoma of the Parathyroid Glands Endocrinology 1929 Mil

The tumor described by Wellbrock, which was observed in the Mayo Chinic, measured 5 by 35

by a cm and was nodular bluish gray, fluctuating, semi elastic and covered by a fibrous capsule was situated at the lower pole of the right lobe of the thy mid gland On section it was found to consist of four distinct encapsulated nodules com posed of yellowish brown fairly firm, and reddish blue spongy tissue containing several cavities vary ing in size and filled with amber colored fluid. The general structure was that of the parathyroid gland.

heing made up chiefly of large clear cells The tumor was diagnosed as a malignant adenoma because of the polymorphism of the cells and the hs perchromatic oucles the presence of mitotic figures, the invasion of the neoplastic tissue into the capsule and the striking absence of foam cells

SURGICAL PATHOLOGY AND DIAGNOSIS

Staemmier Mt Physiological and Fathological Regeneration (Physiologische und pathologische Regeneration) Arch f Elin Chir, 1928 clin, 550

In the mammal and in man there is no regenera tion of organs merely a regeneration of tissues. In man like is formed only from like. At most the mesenchymal tissue is capable of producing related

In the condermis the conthelial cells of the mucous membrane and the lympb and sex glands, regenera tive capacity is well developed. Injuries of muscles heal as a rule only by scar formation but under peculiarly favorable circumstances, the skeletal mus culature is capable of extensive regeneration if its gross structure remains intact. Even where there are gross defects, complete substitution may take place

In the heart muscle the regenerative capacity is less, but primary regenerative formations occur the my ocardial fibers retain their capacity to proliferate and nuclear proliferations may lead to bursts of

regenerative activity

Injunes of the hiver beal chiefly by scar formation. When large parts of the hver are removed the remaining portion hypertrophies through an increase m the number of the cells of the intact lobes Entire lobes do not regenerate only hepatic cells (acute yellow atrophy of the liver, etc. In the Lidney's true regeneration takes place when

extensive necrosis of epithelial cells has occurred without destruction of the gross structure (sublimate poisoning chromium poisoning nephroses)

These facts suggest that a cell which has been present in the hody for perhaps eighty years without substitution and without division may suddenly, fol lawing a chance injury begin to divide and produce fully functioning cells. As the author regarded such an occurrence as improbable he made a careful study of the cell in its normal life course to determine whether processes may not occur which under physi ological conditions point to a change in the cell

He found that in the heart muscle double nuclei are frequently present besides whole rous of nuclei

They are almost never seen to the newborn and are

seldom seen in young children. In adults, their num bers vary widely These nuclear constrictions repre sent, not a stable, permanent condition but appar ently a phenomenon of division which passes rather quickly and occurs periodically and simultaneously (as though in epidemics) in a large number of nuclei An increase in nuclei does not occur in the heart muscle, there is rather an impoverishment of nuclei The process is a double one consisting in nuclear division and nuclear fusion

In the transversely striated skeletal musculature. the findings are similar the formation of double nu cles in the musele fibers and long rows of nucles There are certainly changes in the form and also in the mass of the nucles. The same pictures are seen under morbid conditions After muscle injury, the

changes are especially marked

In the liver of the adult in addition to the numer ous and well known benatic cells with two nuclei the picture of amitotic nuclear division is frequently seen These formations in connection with the dou ble nuclei which are very often found lying side by side like the two halves of a breakfast roll indicate that in the hepatic cells also nuclear division goes on in postfetal life and after the cessation of growth This is indicated moreover by the fact that the num ber of cells with double nuclei is greater in adults than la young children Lither cell division follows the nuclear division or the number of nuclear divisions is the same as the number of nuclei destroyed or the number of nuclear fusions

The same observations are to be made in the epi thehal cells of the minred uriniferous tubules of the kidney Here also pictures of amitotic nuclear division are seen. Similar changes occur in other gland cells for example, in the pincreas in the gha and connective tissue. In general it appears to he a nor mal vital phenomenon which must also bave a defi nite functional importance. The Langhon cells con stitute an exception as they do not show processes of

nuclear division

Since pictures pointing to nuclear division are found in the most varied types of organs the occur rence of such division seems proved beyond a doubt Accordingly amitotic nuclear division occurs nor mally in mammalian and human tissues presenting the greatest points of difference and continues after the termination of the period of growth

With regard to the protoplasm of the cells the

anthor states that division of the cell body was not seen in the liver nor in the kidneys but it is very possible that the nuclear division described is followed by division of the protoplasm. The former view that the tissues examined are entirely stable (Rizzozero) is not correct. A numerical increase in the nucles with probable destruction or fusion of nucles occurs physiologically The process may be described as a change of form which produces a regu lar but much more slowly occurring mutation of form The multiplication of nuclei must bring with it an alteration in the metabolism of the cell. The change in form is therefore accompanied by rhyth mic variations of metabolism. From time to time in the course of its life the cell receives new metabolic ampulses from changes in its nuclear substance

The author defines regenerations as new forms tions and transformations of tissue which serve to compensate for a defect of normal function which is already present (accidental regeneration) or to pre vent the occurrence of such a defect (physiological regeneration) Compensatory hyperplasm and hy pertrophy may be classed among the regenerative processes The question as to whether the normal processes described in the liver, kidneys, heart and skeletal musculature are to be regarded as phenom

ena of regeneration, he answers as follows It is possible that in the liver and kidneys an almost unobservable replacement of cells takes place In the heart and skeletal musculature the phenomenon seem to he merely alterations in the nuclei which result in increased metaholism and heightened function Since they take place under normal conditions their object is to prevent a lowering of the metabolism Since the new formations and trans formations of tissue, which prevent the occurrence of a defect of normal function, are designated as physiological regeneration the nuclear changes de scribed must also be reckoned as regeneration. In the course of the life of muscle fibers there takes place a gradual lessening of metabolism a conse Quence of wearing out which is associated with not clear destruction or fusion As a reaction there occurs a nuclear proliferation which rompensates for the disturbance of metabolism (tissue teji, enation) Regeneration is not therefore a process for which a

defect from injury is necessary it is rather a height

ening of physiological processes resulting from ab-

normally strong stimulation

LEICH HEMPEL (Z)

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INTERNATIONAL ABSTRACT OF SURGERY

FEBRUARY, 1930

LANDMARKS IN SURGICAL PROGRESS

BY IRVING 5 CUTTER MD ScD, CHICAGO Dean Northwestern University Me lical School

THE SURGICAL ATTACK UPON TRIGEMINAL NEURALGIA-TAMES M CARNOCHAN

RIGEMIN AL neuralgia was not described by ancient writers as a distinct disease but was confounded with various types of headache and as such was mentioned by Aretaeus of Cappadocia The name tic douloureux was attached to the affliction by Andre' of Versailles Clinical descriptions have usually dated from the es-as of John Fothergill² and the detailed ac count of Samuel Fothergill 3

Richet reports that strolling mountebanks and itinerant sur geons occasionally cut for neural

gia, making an incision on the side of the face near the ear The cut no doubt was made in an effort to sever the auriculotemporal branch of theinferior maxillary nerve Section of the several branches of the fifth nerve had been tried by numerous surgeons but recurrence of the neuralgia invari ably followed The next step in the surgical attack upon this formidable disease was that of removing sections of the offending nerve branch usually from one to three centimeters in length. The

IAMES MURRAY CARNOCHANS

(1817-1557)

pioneer in neurectomy Auguste Berard who in 1816 described the operation in the anticipation that permanent rehef would result This procedure was followed by relief in numerous cases the cessation of pain being emmediate and lasting in some instances for from a few months to a year or two Not satisfied with less than permanent relief. surgeons sought to excise the retve nexter the encephalon and the earliest bold operative attack is that of John M Carnochan,

who in 1855 excised the superior maxillary nerve from its exit from the foramen rotundum outward for a distance of more than an inch, at the same time removing Meckel's ganglion Carnochan's operation, as will be noted from the description appended herewith was victously mutilating nevertheless, patients who had suffered for any length of time with a severe neuralgia gladly welcomed any deformity if relief from pain would result. As a surgeon who saw a case operated by Carnochan's method remarked

The patient seemed delighted with his mutila tion since in exchange for it he was wholly freed from his neuralgic torture

15 2 2546 B and st 2543 differentiated between septicarms and

Oberet nptles ele maldes de ethe Paus 2756 Apainfulaffect in 1th lace Medical Obser toons and Inquiries.

Acon b alsy tematic account of painf laffest of then ries of the f commonly a lied to lot eur Lon fost these D D A R bet (510-1591) f wh m Richet sa eu mm in med

F on ph t craph in posses not of the New York Acad my of Ved cine

EDITOR'S COMMENT

This recognition, the surged treatment, and the results of treatment of perforated pastner and duodenal ulcer are subjects of great in terest not only to the surgeon but to the physician and general practitioner as well. It can scarcely be repeated to often that the results of surgical treatment depend primarily, just as do the results of treatment of intestinal obstruction upon the early recognition of the ducase and the number of hours that have elabsed between the catas

trophe and its treatment

Enger (n. 100) emphasizes this fact in a paper appearing recently in the 1cts chirurgica Scandi nation and discusses the immediate and late results of surgical treatment in 1,767 cases of perfornted gastric and duodenal ulcer collected from 50 hospitals in Sweden and operated upon by approximately 100 surgeons in the years from 1011 to 102, Of 1 40, patients 684 were treated simply by suture of the perforation of these, 26 4 per cent died Six hundred and sixteen patients were treated by suture of the perforation and gastro enterostomy of these 23.4 per cent died In 84 cases resection was performed, in these, 25 per cent of the patients died. In 111 cases only tamponade or drainage was performed and 68 s per cent of the patients died. The author makes The results in the cases treated this comment by suture would not have been improved by gastro enterostomy, but in the cases treated by gastro enterestomy the mortality would probably have been somewhat lower if the suture method had been adonted ' and. There is every reason to conclude that the mortality in these cases (of resection) would have been very much less if the radical procedure had not been cho-en

The treatment advocated by the author is that employed it the Mara Hospital in Stockholm—longitudinal excision of the aleer transverse suture, gastrostomy, and primary closure of the abdomen without dramage. In 78 cases operated upon by this method the mortiality was 115 Fer cent, and in 45 cases operated upon mithin six hours of the perforation there were no deaths.

Although irrigation of the abdominal cavity has frequently been employed the author states that both in early and late cross the mortality has been less in the cases which were treated by simple sponging than in those in which arrigation was used.

To determine the late results of operation the author studied the data obtained from 6% pa tients operated upon at least a year previously Three hundred and eighteen had been treated by simple suture, 31, by suture and gastro-enter ostoms and as by resection. Of the first group cure or improvement had resulted in 543 per cent of the second group in 80 o per cent, and of the third group in So per cent ft is the author's conclusion however, that many of the patients who develop recurrence after simple suture re cover completely or are greatly improved by a second operation or an ulter cure, and the tisk it no greater than in cases of picer without per foration. Of patients who develop recurrence after gastro-enterostomy, fewer are benefited by further treatment, and a second operation is associated with a much greater risk and in patients with recurrence following resection the prognosis

Few operations in abdominal surgery are is frequently and successfully performed as removal of the diseased gall bladder and in few are the results of a slight error in technique more disastrous. Postoperative wound infection injury of the bowel with subsequent fistual formation, and mujery of the bladder and other viscers are in fortunate complications of abdominal surgery, but usually not repearable. Jupy or division of the common duct however, in a large proper tion of case, lends to disastrous consequences.

is still less favorable and the mortality higher

Beaver's interesting study of the variations in the extrahepatic bihary tract (p 117) is another reminder of the fact that anomalies in the bile passages are common and is a helpful guide to the nature of such anomalies. In the cases studied Beaver found the normal 'angular union of the cystic with the hepatic duct in only 58 per cent The long and short parallel types of cystic duct were pre ent in more than a third of the cases studied In such cases, the author points out the cystic and hepatic ducts are so intimately united by fibrous tissue that they are inseparable has rough manipulation roay tear the thin septum between them with irreparable injury of the he patic duct. Of great interest also is the frequent presence of accessory hepatic ducts (in 8 7 per cent of the cases studied), and the fact that an accessory right hepatic duct is often accessory also to the cystic duct (3 out of 4 cases)

wall of this eavity was broken down with a small chisel, and the portions of bone removed trunk of the nerve was now still further isolated from the other tissues in the spheno maxillary fossa The posterior deotal nerves being divided, and the dissection being carried still further the branches given off to form the ganghon of Meckel were reached These were divided and also the branch given off to run up towards the orbit Lastly, by the use of blunt pointed scissors curved on the flat side. the trunk of the nerve was divided from below upwards close up to the foramen rotundum hemorrhage was not very profuse the labral arteries being easily controlled by pressure of the fingers and the branches of the internal manillary artery in the spheno maxillary fossa by dry lint or what is better the compressed sponge The ups of the wound were brought together and maintained in place by thir teen points of twisted suture the German or Carls bad pins being used

This severe and trying operation is perfectly justifed by the fearful nature of the disease for which it was projected. It is one of those operations which was projected. It is one of those operations which could not be supported by the patient without the influence of chloroform. The handling of so large a serious truth, with the foreign and the necessary contact with the hard instruments while separating it from its surrounding connections would. I support the support of the annesthetic software of chloroform or ether. For the rest the effects of the cuatrices upon the countenance cin searcely be called disquaring and the patient speedly recovers without suffering from the patient speedly recovers without suffering from

much constitutional disturbance

It will be noted that the position in which Carnochan placed his patients is the identical position used by present day surgeons in following the temporal route for section of the gasserian ganglion

Fowler found that recurrence within three years failed in only eight out of fifty two extensive resections of the second division of the trifacial Their seemed to be no practical way to prevent the region of the branches of the nerve which had been resected perspectal to the garge more than the foramen rotundum was blocked with plugs of bone Cross's says

Professor Conner of Cincinosit has collected thirteen cases in which this operation was executed, in seven of which the pain is known to have recurred at a period varing, from four weeks to six teen months. Of the remaining six in which a return of the affection has not been reported the history is of the affection has not been reported the history is months fourteen months everal months for the property of failures or cases un which temporary rieff alone of failures or cases un which temporary rieff alone

1 System of Surgery 1 1 11 Phil d Iphia 2879

was afforded, exceeds the cures under which are included the nostances in which the result of the operation has not been fully reported. We may, therefore be warranted in concluding that the removal of the gaoglion of Meckel is not essential and that the more simple operation of neuercomy of the superior mixillary nerve as far back as it can be reached by the furle, may be substituted for it.

When Gerhard and Swieten I under the patronage of the Empress Mana Thereas, underrook the
re organization of the Vienna School, he chose a
faculty of distinguished test among whom
was Lorenz Gasser, professor of analomy of one of
Casser a pulps, Antonius Balthasar Ray,
Gasser and Gasser, professor of any and of the
future of the control of the semiliant analytic,
the ganglion Gasscranium, saying, "Ganglion
semilianar see as a bin entorie interioris ejus fabri
cae, Gasserianum imposterum dicendum, quisque
circumferentiam." The dissertation is accompanied by a copper plate illustration of the
ganglion

The failure of Carnochan soperation to afford permanent relief in but few cases of trigement neuralga stimulated surgeons to renewed effort to attack the fifth nerve within the skull The earhest surgical attack, upon the gaserian gang lon was that of Wilham Rose, who, on April 2, 1890, instituted its rimoval for the treatment of trilacral neuralga Earher, in 1885, J Ewing Mears, in discussing trilacral neuralga, said

If in any case I believed or had evidence by the symptoms or by the appearance presented in the branches of the inferior maxillary division, that the morbid condition had invaded the Gasserian gangle on I would not hesitate to enlarge anteriorly the oval loramen by the application of the burr attached to the surgical engine and by traction draw down the ganglion from its position in the fossa upon the anterior surface of the apex of the petrous portion of the temporal bone and proceed in a cautious manner to break it up or remove by section with the small blunt pototed scissors The primary ligation of the internal maxillary artery precludes hemorrhage from either the meningea media or parva the first of which is in intimate relation as it passes through to the foramen spinosum and the second as it enters the cranial cavity through the oval foramen. The position of the internal carotid artery as it passes from its canal in the petrous portion of the temporal bone into the cavernous groove should not be for gotten and great care should be taken to avoid injury to it by going beyond and behind the margin of the oval forameo

^{*57 0-2779} *\ na J ly 31 1765 *Lord n Lancet 1500

^{*}Tre sactio s of the Americ o Surgo at Association 1885 ii 483

Axy XII.—Emeron of the Frenk of the Sanad Branch of the Fifth Part of Jures, beyond the Graphics of Michel, for Severa Venezipus of the Fine and Jures Gran. By J. M. CARDOCKER Professor of Sergery in the New York Majind College Surgeonineshalf to the St to Haspirik (New York) the

Tax security lemining given by without a strongles, in the dealerment of the facts one of a regregated additional. We seem assign of the facts of th

The designation of the time proper or of the second branch of the 18th pure of norms, it by Is the meal seconds from it that absorbly. The opposition by the second second seconds of the second seconds of the purpose which meads on the proper second secon

Facsimile except from Carnochan's original report

Carnochan s first report (18,8) described three cases, one of which had had no recurrence after fourteen months. His report created a sensation, and practically, all surgical writers of the day in cluded Carnochan's procedure in textbooks and monographs dealing with the surgery of the head and neck. While not strongly and ocatung so extensive an operation most writers agreed that in intractable cases the method was indicated. This is true of the works of Agnew, Gross, 'sathurst and others' Ashburst says'

The superior maxillary nerve may be reached close to the foramen rotundum the nerve being sep arated from the other tissues in the spheno maxillary fossa and traced beyond the ganglion of Meckel and divided from below upward with blunt pointed stributs.

Samuel D Gross says

For the related neuraliza of the superior mailtimp incree sections of the affected cord has within the enterprise section of the affected cord has within the factly warrantable extent by several American sur good as Carnochan, Blackman W. H. Mussey and others, the first having taken the lead and thus earned for himself great credit in a class inf case previously considered as incurable tree, available.

While today Carnochan's operation would be obsolete, yet with the surfical knowledge of his day it was no doubt far safer to approach the forarmen rotundum from the front rather than from inside the skull, as was later proposed by

both Hariley and Krause We must remembe that Carnochan was working in the pre listenan period when a brain operation such as that of Hariley would have been attended with great danger of meninguis

Operation The principal instruments necessary for this operation are a trephine the crown of which is three-quarters of an inch in dameter an elevator, chisels of different shapes and sizes a leaden or aren mallet the bone forceps of Luer small pieces of sponge tied to a stick or a piece of whalebone and a small fixed trephine of half an inch m diameter which may be used to perforate the posterior wall of the antrum The assistants bein, penperly arranged the patient was seated upon a solid chair opposite a good light and was put under the influence of chloroform The head was rested upon the breast of an assistant, who maintained it in this position. An incision was now made on the cheek commencing near the internal angle of the eve on the inferior edge of the orbit, opposite the anterior lip of the lachry mal groove. This incision was carried downwards and slightly outwards, for about an inch to a point opposite to the furrow on the lower portion of the ala of the nose another incision which also terminated at this point, was made, commencing about hall an inch below the external angle of the eve opposite the edge of the orbit thus forming a \ incision in the area of which is situated the foramen infra orbitale. The flap thus resulting was thrown upwards and the branches of the second branch of the fifth sought for, some of these being found they served as a teady guide to the trunk of the nerve This was now isolated from the surrounding tissues up to the point of exit upon the face from the foramen The lip was now everted and the mucous membrane detached from the s pe rior maxilla along the line of junction between the cheek and the gum A sharp pointed bistoury was now inserted at the apex of the V incision into the mouth and carried downwards, so as to divide en tirely the tissues of the cheek and upper lip along a line passing midway between the ala of the nose and the commissure of the hps The two flaps thus formed were now dissected from the osseous tissue beneath one being reflected outwards towards the ear the other internally towards the nose The whole front wall of the anirum maxillare with the nerve passing through the foramen infra orbitale was thus exposed The crown of the trephine was now applied on the anterior wall of the antrum im mediately below the foromen infra orbitale and an trregular disk of bone removed so as to expose freely the cavity of the antrum The circumference of the foramen, the hardest portion of the canalis infra orbitalis was now destroyed by Luer's forceps and a small chisel The trunk of the nerve was now traced along the osseous canal in the floor of the orbit which was broken down with care so as not to encroach upon the tissues in the cavity of the orbit Arriving at the back of the antrum the posterior

American Jo real of the Medical Sciences Philadelphia 1858
*International Ency lopeds of So gety Vol V New York 1884
*System of Surgety Vol II Philadelphia 1872

ABSTRACTS OF CURRENT LITERATURE

SURGERY OF THE HEAD AND NECK

HEAD

Postonerative Sinus Thrombosis Brunner II Irch Otolaryngol 1929 x 217

The author summarizes the differences between latent sinus thrombosis and postoperative sinus thrombosis as follows I Latent sinus thrombosis is found more often in

persons with acute otitis while postoperative sinus thrombosis occurs more frequently in those with chronic otitis In latent sinus thrombo is the Komplika.

tionszacke appears immediately after the operation on the bone. In postoperative sinus thrombosis the interval is longer usually about two weeks

3 In latent sinus thrombosis mostly extensive local thrombi are found whereas in postoperative sanus thrombosis mo the mural thrombs are found when operation is performed immediately after the appearance of the komplikationszacke

4 In latent sinus thrombosis the prognosis is good if the operation is sufficiently radical. In post operative sinus thrombosis it is untavorable

5 Postoperative sinus thrombosis occurs more

often than is generally believed There are different causes for the development of postoperative sinus thrombosis
Is virulent infection of the wound

Exposure of the sinus is of less importance

7 The interval before the appearance of the "Komplikationszacke is usually about a week especially if the postoperative sinus thrombosis is produced by injury of the sinus wall Sinus thrombo sis caused by spontaneous opening of the sinusapparently because of hymorrhage from the smusrequires a longer time to develop than that produced by simple exposure of the sinus wall. If postopera tive sinus thrombosis is produced by a previous in fection of the wound the interval is usually about two weeks JAMES C BRASHELL M D

Fraenkel W M Ostellis of the Malar Bone and Its Differential Diagnosis from Affections of Dental Origin (Les osientes du malaire et leur diagnostie avec les affections d'origine dentaire) Irch internat de laringol 1929 xxxv 82x

O testis of the malar bone is almo t exclusively a disease of the growth period up to the twentieth year of age. It is most often of tuberculous origin but may be syphilitic or progenic In infancy the exciting organism of the pyogenic form is usually the streptococcus whereas in the period from the tenth to the seventeenth year of age (another period in

which the incidence of the condition increases) it is the staphylococcus When the osteitis is tuber culous the malar bone is usually only one of a num ber of bones involved

The symptoms are much the same whatever the cause The diagnosis is based chiefly on the history and the findings of laboratory tests Because of the position of the malar bone roentgen examination gives little information Tuberculous osteitis is usually located at the orbital margin. Its onset is As a rule its course is slow, but in some cases it may be acute. A period of tumefaction to followed by a period of fistulization. In the begin ning pain is absent. The pain is slight at first, but hecomes progressively more severe. It radiates around the eve and toward the chin In the early stages the swelling is localized. As a rule it in creases slowly but occasionally it spreads rapidlyin a night It involves the entire periorbital region Beneath it a cold abscess is formed. The abscess develops without greatly affecting the general health sometimes rapidly in twenty four hours, and sometimes over a period of neeks or months The skin becomes purple and hot and ulceration of the skin or the mucous membrane appears. The pus rarely contains the Loch hacillus. Small sequestra may be ehminated The disease may extend to the eyeball and its adness

While, in itself tuberculous osteitis of the malar hone is inclined to be benign it indicates grave general involvement of the organism

In the period of tumefaction osteitis of the malar hone must be differentiated from the cellular re actions of infectious cutaneous dermatitis jugal actuomycosi chronic genial adenitis beginning osteosarcoma and osteoperiostitis of the superior maxilla A fistula situated in the superior vestibular space may be either a dental or a jugal fistula. When it is jugal it must be differentiated from fistulæ due to jugal actinomy costs chronic genial adenitis and suppurating paradental cysts from palpebral fistula and from necrosis of the malar bone secondary to suppuration of the upper molars The differential diagnosis is discussed in detail

The author reports ten cases some of which he collected from the literature They include one case of phosphorus necrosis FLORENCE A CARLENTER

Wakeley C P G The Gausation and Treatment of Displaced Mandibular Garrilage Lancel 1929 CCEVII 543

Displacement of the mandibular cartilage is a rare accident due mainly to the shape and attachments

Mears concludes his paper with the statement that neurectomy to be successful should be com plete, and some of his patients following this procedure remained perfectly free from pain for many years Mears did not actually perform the operation he outlines for the removal of the ganghon

Edmund Andrews1 of Chicago devised a proce dure similar to that of Rose, differing only in the details of the deeper dissection. Andrews first operation was in 1802. In his method the ganglion was scooped out with a sharp spoon and mas much as he reports considerable hamorrhage it is possible that at his first operation he opened the cavernous sinus

Several of the early operators followed what was then known as the kose Andrews method until the high temporal operation of Hartley and

Liause came into vogue

Hartley's? proposal was entitled "Intracramal Neurectomy of the Second and Third Divisions of the Lifth Nerve a New Method " and was read before the New York Surgical Society, January 13. 1892 His case was that of a man aged forty six who was admitted to the hospital August 8 1891 In 1884, a modified Carnochan operation had been performed and the infra orbital nerve with Meck els ganglion had been removed. In 1886 there being no relief from pain section of the inferior dental nerve was made. Hartley proposed to divide the second and third divisions of the fifth nerve completely in one operation, attacking the nerve on the inner surface of the skull outside the dura The second and third divisions of the fifth nerve were isolated at the foramen rotundum and foramen ovale and a tenotome was used to divide both divisions of the nerve inside the skull on the inner side of the foramina and that part between these and a point beyond the gasserian ganglion was excised. Needless to say, the operation of Hartley was a complete success and is practically the present day method for the radical cure of triceminal neuralgia

Modern surgery acknowledges with gratitude the work of Rose, of Hartley of Krause and of Victor Horsley, but particularly to Harvey Cush ing of Boston to Spiller and Frazier of Philadel phia, to Adson of Rochester Minnesota and to Davis of Chicago (a pupil of Cushing) is due the development of the physiological interpretation as well as remarkable remements of technique in this difficult surgical procedure

Phil d lphia 130 Inter tional Medical Mag New lo k Medical Jo nal March sq 590 1 307

Carnochan's name should be numbered among those pioneers of surgery who helped blaze a trail While Carnochan's procedure was not destined to survive, nevertheless his attack upon the nene was an incentive to further investigation and no doubt stimulated the more extensive operations of Kose Hartley, and others

John Murray Carnochan was born in Savannah, Georgia July 4 1817 the only son of John and Harriet Frances (Putnam) Carnochan Ilis father a native of Scotland, removed at the beginning of the nineteenth century to Nassau (Bahama Islands) and afterwards to Savannah, Georgia His mother was a grandmece of General Israel Putnam

In early childhood the subject of this sketch being in feeble health, was taken to his father's home in Scotland, where he resided until eleven years of age He was then sent to school in Edinburgh completing the preparatory and academic course for the first degree of arts which was granted by the University of Edinburgh when he was seventeen years of age. After a short period of travel in England he returned to America and enrolled as a student in medicine under Dr Valen tine Mott at the same time registering for the lectures given by the faculty of the College of Physicians and Surgeons New York City from which institution he received the degree of Doctor of Medicine in 1836 Shortly afterwards he jour neyed to France, the Mecca of medical students of that period, where he spent six years in study, observing the work of the great French surgeons of the day - Civiale Lisfranc Rour, Velpeau and others He later visited London and followed the clinics and fectures of Benjamin C Brodie and Sir Astley Cooper He returned to New York in 1847

In 1852 he was made Professor of Surgery in the New York Medical College, which chair he held until 1863 In 1870 he was appointed health offi

cer of the port of New York

Carnochan was noted for his bold ligations and unusual daring in devising and executing difficult and hitherto unattempted operative procedures He wrote widely for the medical press and trans lated Sedillot's Traité de Médicin Opératoire, Bandages et Appareils also Karl Kokitansky's Handbuch der pathologischen Anatomie Anumber of his original papers were brilliantly illustrated after drawings by his wife Estelle Morris, who was a stalled artist Dr Carnochan died in New York City as the result of an apoplectic stroke, October 28, 1887

Kiep W 11 A Modification of Lagrange's Operation Brit M J 1929 n 341

In the operation described a flap of conjunctiva. subconjunctival tissue and Tenon's capsule is re flected down over the upper limbus as in Elhot's trephine operation 2 5 mm above the cornea and the sclera is split with a Took cornea splitting knife to form a small furrow corresponding to "a finger and a A keratome is introduced into closely pared nail this furrow and an incision from 3 to 4 mm in length is made into the anterior chamber anterior lip of the scleral incision is then grasped with the forceps and a small piece ble the paring from a finger nail is cut out. The itis usually presents in the wound but in any event a peripheral indectomy is done the iris being placed in position by gentle massage of the cornea and hmbus The

conjunctival flaps secured by one suture
It is claimed that this operation causes minimal
It auma to the intra ocular structures. It may be
done with little or no collapse of the antenor cham
ber. The thickness of the flap is a protection against

late infection

In cases of acute congestive glaucoma it is advisable first to use miotics and to give saline solution
intravenously for perhaps a week until the antenor

chamber becomes fairly deep

Goldstein I and Wexler D The Ocular Pathology of Periarteritis Nodosa Arch Ophth 1929 ii

The term periarteritis nodosa was given by Kuss mail and Maier in 1866 to a distinct pathological entity characterized by the presence of nodular thickenings of various sizes in the walls of small and medium sized blood vessels and caused by inflammatory disease

The disease occurs most frequently in the mesen tem, renal hepatin pulmonary and cerebral vessels and the skin and muskes of the extremites. The symptoms correspond to the effects of the development of thromboes aneurismal dilatation and rup men of thromboes aneurismal dilatation and rup men of thromboes aneurismal dilatation and rup men of the common manifestations are my ocardial fibrous from disease of the coronary arteries multiple hemor thange indirects with occasional acute or subacute hemorrhage nephritus multiple small aneurisms and triputures of cerebral arteries leading to areas of soft orthogonal control of the mescatteries are the coronary of the mescatteries. The condition may occur at any age but is most.

frequent in young persons. Its course is character ized by chrome sepsis great emacation anzima and an irrigular temperature curve. Definite periods of remission and exacerbation have been observed When multiple organs are affected the dangooss is difficult because of the numerous symptoms and bustire chinact picture.

The disease has symptoms of a generalized infectious or toxic process for which no single organism can be held responsible

Although there have been repeated observations of the ocular fundus the eye lesions have never been fully described. In the case reported the changes in the eye appeared to be confined to the choroid The majority of the arteries were enlarged and showed inflammatory changes in varying stages and of vary my degree. Some of them showed early changes in the form of a fibrin clot with a few degenerated blood cells early necrosis of the inner media, and swelling of the endotbelial and medial cells Others showed rich adventitial and medial infiltration varying de grees of intimal proliferation with or without throm bosis and in some cases necrosis and fragmentation of the medial wall. Some exhibited a media which though inhitrated was still intact. In others the media had been largely replaced by infiltrated cells or problerated subendothelial tissue

LESLIE L McCox, M D

EAR

hates A L The Evolution of the Sense of Hearing Proc Roy Sec Ved Lond 1929 XXII 1489

Yates states that the cochies originally developed from the tactile organ which is represented in fishes as the lateral line. It sank into the mesodermal structures and was furnished with the working mechanism of a microphone and with nerves leading mechanism of a microphone and with nerves leading and the microphone and with nerves leading and the microphone and with nerves leading and the microphone and with nerves leading food. In apes the auditory protective reflex is partly disappearing and becoming an intellectual sense

In man the intellectual sense has increased as greatly that to a great extent it has mailed the protective sense the centers in the mid brain which serve the latter have become relatively smaller and the centers which serve the intellectual auditory function have increased enormously. As a result, the human infant tires to speak but must be taught a recognized code of sounds which takes the form of words. Gradually from single words the growing to reliect learns to appreciate word groups.

The power of mitellectual hearing apparently. In a The power of mitellectual hearing apparently. In the power of mitellectual hearing apparently and mustle sense. If the missed in a person with poor tactile power a similar and mustle sense if the power and person with a good tactile sense powers and persons with a good tactile sense proper sons who make great use of their intellect a far greater degree of damage to the ear is necessary be received great of the power to hear one results of the power to the power of the power to be a proper of the power to be power to be a proper of the power to be a proper of the power to be power to be power to be power to be a proper of the power to be power

JAMES C BRASWELL M D

Drury D W Chronic Deafness—An Endocrine
Study of 1 000 Case Histories Laryngoscope
1929 XXXX 555

The author states that tinnitus aurium is common in cases of hypothyroidism. The deafness present in

of the mensous Anatomical tertbook descriptions of the cartifage are quite at variance with the sectional diagrams. A study of over fifty specimens of the mandibular fibrocartitage received in every measures a dome like structure, very elossity applied to the mandibular condyle. The cartifuge varies in thickness, but is always very much theker in its enter and antenority, there being a distinct depression between these parts. The posterior part of the cartifage which is very thin passes well down over the posterior surface of the condyle and fuses behind with the capsule.

The temporomandibular joint is divided by the forecartilispinous disk into two cavities each with a distinct synomal membrane. The circumference of the disk is adherent to the capsular ligament and anteriorly affords partial insertion to the external petrogoid muscle. As there are two definite cavities, movements are complex, consisting of a globing movement and a rotation which rarely occur inde-

pendently of one another

Displacement of the mandibular cartilage may be caused by a violent cough sneeze or yawn a blow on the jaw when the mouth is onen or the extraction

of a lower molar

The 33 mptoms are very characteristic. The patient experiences sudden acute pain in the joint which may be referred to the piana or the skin just above the piana. Attempts to close the mouth are putiful sally thon is excessive and misteration is provided to the piana of the piana becomes less marked. Recurring displacement is manifested by an adulble snap on mistication.

The treatment is more likely to give permanent results if the reduction is accomplished when the meniscia first alips out. The best method is the meniscia first alips out. The best method is the mouth is open followed after a few minutes by slow closing of the mouth by elevation of the jax Several attempts may be necessary before the reduction is complete. In eases of long standing or frequent recurrence removal of the cartilage is indicated.

Whitting E. Surgenting M. D.

Schmidt G Operations for Prognathism (I regeneoperationen) Zentrabl f Chir 1929 p 462

In order to correct the functional and cosmetic disturbances estuded by a protrioning lower jaw the body of the inferior manulla on both sides has been sweet through and resected. Harcker successfully performed such an operation in the Munich sumpaid clinic to 1922 but the end results are not known as the patient cannot he traced. Disadvantages of this procedure are the frequently necessary sacrifice of teeth the operang of the wound into the mount early, the severance of the distal part of the main artery, venus and nerves of the lower jaw and the uniformalie muscle action on of the bone fragments.

More effective according to Lane and Lindemann Bruho is horizontal severance of the ascending portion of the jaw on each side below the semi

circular indentation which hes between the articular and coronoid processes and above the "lingula on the internal aspect of the jaw and the entrance of the nerve arters, and year into the canal in the distal portion of the jaw After this has been done the en tire distal portion of the jaw is replaced and approximated to the severed bone and firmly held in place by wires previously applied to the teeth of both jaws This procedure does not necessitate the sacrifice of teeth or produce an opening into the oral cavity The nerve and vascular supply of the paw is protected there is no unfavorable muscle action on the bone fragments the maxillary arch is preserved, and the operation causes only a small, rapidly disappearing scar below the atyloid process. At the time of incision care must be taken to prevent in jury to the facial nerve particularly the upper branches to the external orbicular muscles and in jury to the parotid gland. In chiselling through the bone care must be taken to avoid the internal maxillary artery

In all of seven cases in which the latter operation was performed in the Munch surpcial chine in the bear of from March 1973 to January 1973 their suits were entirely assistance over the pareties were men ranging in age from eighteen to twent his years. The cases are reported with photograph showing the condition before and after the operation. Two of the patients were shown hefour the Munch Surgical Society one vear and fourteen days respectively after the operation. Grosso Source (2000 Science)

EYE

James W M Plasmoma of the Conjunctiva

In half of the cases of plasmoma of the conjunctiva which has been reported in the literature the condition was complicated or caused by trachoma. The treatment has consisted of creation and of radom irradiation both of which have proved hendful Only one case of malignant plasmoma his preserved. In this instruce exenteration of the orbit was done but death resulted from metastaces.

James reports a case of conjunctival plasmonar in a young farmer who he dan a trachoral district and had previously been treated for trachoral. When this were exterted pall waxy tumors measuring 410 by 31,00 mm could be seen extending almost entirely across the formers. Elsewhere the conjunction as as thickneed and ordemations. There was a moderate planness in each corner. The govern terminal was essentially negative except for congenital harding and cleft pulate.

The statement were exceed Metroscopic examination aboved that the epithelium was by pertrophed and contained many poblet cells. The adenoid layer was the cheen of an contained numerous planna cells Many lymphocy tes and a few polymorphonous recovers even for the present but there were for for the present but the courted that the courted the courted of the courted

Kramer R Intracranial Complications Following Sphenoid Infection Lary # goscope 1929 xxxix

The author reports nine cases of intracranial in fection resulting from disease of the sphenoid and gives the autopsy findings in six. In the three other cases autopsy was not performed, but the clinical diagnosis was reasonably definite.

Intracrantal invasion from the sphenoid sinuses may occur by way of the general blood stream through perforated blood vessels through debis cences or necrotic areas in the bony wall or through

the roof of the orbit

In the cases reported the lesions found in the brain were meningitis frontal lobe abscess cavern ous sinus phlebitis encephalitis and ependymitis

The cases were of the fulnmanting acute and from types. In those of the fulnmanting type symptoms of a severe memigitis appeared a few days after an acute infection of the upper respiratory tract. I ramination of the spinal fluid showed a bacterial memigitis and a fail termination resulted bottom memigitis and a fail termination resulted bottom that the spinal fluid showed a bacterial memigitis and a fail termination resulted hospital. In all of the acute and chronic case headache was present. Vomiting also was a constant symptom. I outlive eve hadings were present in five cases. Memigitis cisps were present in afficultures of the spinal fluid were positive in all cases except one. Trammantion of the nose revealed a definite spheno ethinoidits. In six cases, Vrsp. The promptos is usually nor on account of the

difficulties of surgical approach Surgical Interference by the external route is difficult and dangerous and the use of the intranasal and intra oral routes is not satisfactor. The results obtained with sactiness sera and drugs have been discouraging. Early drainage of the infected sphenoidal sinus is indicated.

W. M. Paro, V. D.

MOUTH

Mowat G T The Early Stages of Oral Cancer Glasgon W J 19 9 cml 144

The author reviews 244 cases of oral cancer -74

33 of the fauces and 14 at other sites Only 5 of the patients were females

Of the 74 patients with cancer of the hp 73 were been yamokers and a large majority gave a history of a non cancerous abrasion of from one to three years duration. In every instance the abrasion occurred at the point where the pipe was held. In 2 cases the irritation was traced directly to a sharp tooth.

Of the 03 patients with cancer of the torque all were pipe smokers. In 42 cases, smoking was considered the sole factor whereas in 15 tobacco chewing was an additional factor, and in 36 there was irritation from a carious tooth.

Since non-smokers rarely develop carcinoma of the tongue it is believed that the irritation from catious teeth is usually of such short duration that it is rarely the sole cause of cancer

Of the 30 cancers originating in the gums 29 were associated with a low grade chronic infection with a purulent discharge about a tooth and all occurred in pipe smokers

Of the 33 cancers of the fauces 32 were in pipe smokers who gave a history of persistent 'smokers throat long hefore the development of the mailg nancy. Three of the patients had a positive Wasser mann reaction but showed no sign of oral sy philis

Of the 14 cancers at other sites 9 developed in the mouths of pipe smokers in an area where an artificial

denture had caused irritation

In conclusion the author says that any abrasion or other abnormality of the mucous membrane of the mouth in a man over forty years of age should be regarded with suspicion. If it persists after the removal of causes of irritation a microscopic examination should he made. Civikies W. Freening D.D.S.

Thoma k II A Comparison of Clinical Roent gen and Microscopical Findings in Fifteen Cases of Infected Vital Pulps J Dental Res 1929 1X 447

Infection of vital pulps is usually of the streptococcus type and often is the cause of somatic disease. Teeth which have been painful or verysentitute to extreme sof temperature should be care fulls investigated for pulpal infection. The fact that a tooth reacts postively to the vitality test or is painful when the pulp is exposed does not prove that the pulp is not infected. A careful study of the roentgen picture is often valuable as deep primary or secondary carees or secondary changes in the perapical tissue or both may be disclosed. Or causonally deep pendental pockets or penapical infection of a neighboring tooth may be responsible for the infection of a vital pulp.

Such roentgen findings and a clinical history of sharp pains of short duration or dental neuralgia of a more lasting character are the best diagnostic evidence of infection of a vital pulp

Thom reports fifteen cases of infection of vital pulps with the climical history, and roostigen and microscopic findings. In nearly, all there had hen on a considerable of the control of

Brocq P The Extraction of Teeth During the Period of Acute Infection (Latraction des dents en p(riode d infection) Bull et mem Soc nat de chir 1929 ls 8,3

In discussing the question as to whether a tooth that is responsible for osteopenositis should be extracted during the period of acute infection the author states that no categorical answer is possible certain cases of my xordema he believes may be due to colloid infiltration of the aural structures. The admini tration of thyroid frequently results in im-

provement of the hearing

I atients with deafness not due in an infective, process frequently have a low bassl metabolic rate. The suthor believes that there is a direct relation between disjunction of the endorance system and lowered metabolism and that the depression in the metabolism is reflected in the dimensibled acusts of herring. This association is noted in a considerable percentage of cases of otosclerosis.

H W Perox WD

NOSE AND SINUSES

Kern R A and Schenck H P The Relative Efficiency of the Citnical and the Reenifern ological Methods for Sinus Disease Disgnosis With Observations on the Incidence of Sinus Disease Based on the Hindings in 200 Astr matics and 50 So Called Normals 1st J J 5c 1939 Caxwin 165

Independent clinical and roentgen rox eraminations were made of the paranassi sinuses of zoptients with bronchial asthma. While the sendence of sinus disease was found by both methods to be high frowingen are examination 80 p per cent, dim agreement between the country line was marked that agreement between the country line was marked that agreement between the CTP and the was marked that agreement between the CTP and the was marked that agreement between the CTP and the was regards individual sinuses as as follows exhmost add annuses, 33 per cent from all sinuses to the country of th

No frontal sinuses came to operation. In the ethmoidal sinuses a noentigen ray error of 113 per cent was due chiefly to failure to hind refatively acute involvement and polypoid disease or to confusion in overlapping sinus areas. A clinical error of 2.3 per cent was due to failure to recognize chronic disease.

In the sphenoidal sinuses a roentgen ray error of to per cent and a chinical error of 30 per cent were due to practically the same causes as those respon sible for error in the ethnoidal sinuses

In the marulary snuwes alleged error of 48 2 per cent in the renigen ray examination and 64 3, per cent in the climical examination are barged, attributable to the dispenses of a normal snuss as duesked from an accurate and adequate operative check the condition of the anitum being determined merely by strig, tion. However, in a sufficient number of adequate studies both methods of examination were shown to be in error, chiefly in the frinding off evaluation of the control of the c

In examinations of a control group of patients with out a history of recent respiratory infection nr of smus disease the reentgen 7m should stanginglement in 72 per cent and the divided examinate indicated 11 m. 6 per cent. The number of sinces per persons shown to be an olded by receipter in examination was practically the since in submuse and control. These findings are considered further exidence that sinus disease tends to produce per manents structural change which will offen be received by the receipter are and at times by discal examination long after the diseases tell's love The patient; a sign did not seem to have any material in fluence on the incidence, of positive chizal or

roentgen ray findings in asthmatics or controls

The authors conclusions are summarized as follows

2 Acither the rocatgen ray nor the clinical examination of the paramasal sinuses is 100 per tent accurate

2 The roentgen ray is the more sensitive especially in the study of the ethmoidal and sphenoidal smuses. 3 The roentgen ray exagonation will pick up the evidences of sinus disease past as well as present Therefore a positive roentgen ray indiang does not

imply clinically active disease

4 The interpretation of rocution ray fird us in
terms of publication change (thickened mucous
membrane polyris) is not infermently erronous

membrane polyps) is not infrequently erronous.

The roentgen ray examination will often fail to reveil acute recent sinus micetion.

6 Chuical examination alone is able to give positive proof of active sinus disease only if pus is seen

coming from the ostium of the value

7 The chinical examination frequently fails to
reveal chronic disease especially of the ethioidal
and sphenoidal sinuscs if there is no abnormal series

and the

tion in the corresponding drainage areas and the mucous membrane asseen by the nasophara ngoscope shows little if any change 8 It is therefore desirable that patients with

suspected chronic sinus disease be re examined set eral times before a negative clinical opinion is given of The clinical examination sometimes reveals

or the tire cal evaluation solutions not as frequently as roenigen ray examination to the first rgs of transillumination may be

fallacious Polyps and muroid secretion may trans mit light normally and pathological change due to former sausa disease, or normally thick hone may be wrongly interpreted in terms of active disease

11 Neither method is therefore to be relied upon vione Both must be used routinely in the study of

cuses of su pected sinus disease

12 A positive finding in suspected chronic cases
by either method of examination justifies the statement that a sinus may be diseased but does not
warrant the conclusion that it is actively decaded.

unless pusnr polyps are demonstrated
13 In asthmatics a positive iniding by either
method in examination is an indication for opening of
the affected sinus

14 Age is apparently not a material factor in the incidence of sinus disease Apolipi Harting M D ably hard. The hardness has been described as woody or like that of iron or that of plaster of Pari. the thyroid lacks the elasticity of the hyperplastic or colloid pland. Nodulation is usual. The error th as adherent to mu cles and surrounding to ue and can be mobilized en masse. It does not involve the skin like a carcinoma or sarioma. The condition is usually diagnosed clinically as malignance

The treatment is surgical Recurrence is hest prevented by deep \ ray madiation Complete thyroidectomy should be aimed at and possible postoperative tetany should be anticipated. The ensuing my reedema necessitates continuous thyroid feeding after the operation. All dental and tonsillar infections should be cleaned up before or after the operation. Broncho copy should be performed every six months for at le., t three years after the the roidectomy on account of the possibility of secondary

stenosis of the trachen

Histologically three stages of the condition may be differentiated an early an intermediate and a The early stage is characterized by remnants of thy roid tissue a diffuse increase in the connective tissue and an abundance of fumphiolicies 13 which active proliferation is in proceess. In the intermediate stage the thyroid tissue is very scarce and is usually compressed by nests of hymphocytes There are numerous true fymph follicles nith germinal centers surrounded by a zone of smaller lymphoryti elements and in places by desquamated epithelial cells sugge ting giant cell formations. In the late stage there are large bands of a fibrous tex ture which are partly hyaline Lymph follicles are scattered throughout the fibrous tissue and a few more or less well preserved thyroid vesicles are found, especially below the capsule

F S MODERN M D

Toxic Adenoma of the Thyrold Ginsburg S Arch Int Med 1929 xliv 73

Toxic adenoma of the thyroid has been designated by various terms ranging from enlargement of the thyroid gland in connection with enlargement or palpitation of the heart (Parry 1825) to "10dine hyperthyroidism (Jackson 1924) and 'nodular gotter with hyperthyroidism (Rienhoff 1927) The author agrees with Aschoff that the nodular form is a definite tumor formation and not merely a hyper plastic condition and that these simple adenomata can become toxic Clinically a tentative diagnosis of toxic adenoma is justified when a nodular thyroid is associated with the constitutional symptoms of exophthalmic goiter either with or without ocular signs Such a diagnosis is corroborated if indine lessens or aggravates the symptom or if surgical enucleation or irradiation results in cure or im Provement

In a historical review Ginsburg traces the steps in the development of the present concept of torse adenoma as differentiated from a hyperplastic con dition of the thyroid Before the discovery of thyroxia by Kendall in 1914 the clinical observation that in 'adenoma with hyperthyroidism" the toxic phenomena disappear within a few weeks after enucleation seems to have been the chief reason for the belief that foxic adenomy differed from hyper

Plummer showed that in a normal person 2 mem of theroun a day may hold the basal metabolism from .o to 30 per cent above normal, and 3 mgm may hold at to per cent above normal Hyper the roadism is therefore the result of an increase in the roun The hyperfunctioning adenomatous go ter is the result of a pure hyperthy roidism where as exophthalmic goiter is not attributable entirely to an excess of the normal thy road product but may he due to an incomplete thyroxin molecule

This theory of toxic adenoma as contrasted with hyperplasia has met with wider acceptance by nathofogists in Europe than by those in America It has been approved by the majority of surgeons Among those who do not see any fundamental clinical difference between the two conditions are

Croth Hertzler Rienhoff and Crile

Rienhoff states that true adenomata occur but are found in only 8 per cent of the cases of nodular coster with hyperthyroidism seen at the Johns Hopkins Hospital Baltimore and that in toxic nodular goiter diffuse hypertrophy and hyper plasta precede the development of the podules. He therefore believes that subtotal thyroidectomy is indicated rather than enucleation. His preference for subtotal thyroidectomy is well supported by the fact that in only one third of the cases of toxic adenoma seen at the Mayo Clinic has the lesion been found single

Among internists Ilummer's views of the difference between toxic adenoma and exophthalmic gotter have met with almost unanimous acceptance Toxic adenoma is held to be almost essentially a surgual disease

According to the review of the literature by krause roentgen therapy is successful in about 82 per cent of cases of exophthalmic goiter practically the same percentage as that in which operation is successful Its use in toxic adenoma has been negli gible because of the general tendency to consider this

condition surgical

Radium therapy has given very favorable results in both toxic adenoma and exophthalmic goiter The author reports eight cases treated with radium at the Beth Israel Hospital New York The results obtained indicate that radium therapy is preferable to surgery in hoth exophthalmic goiter and toxic adenoma as it relieves the thyrotoxic symptoms and in decreasing the size of the growth relieves the com pression symptoms of toxic adenoma. It must be supplemented by rest regulation of the diet and medication

Ginsburg agrees with Aschoff and Marine that nodular gotter is the same as adenomatous gotter. and he finds no fundamental clinical or patho logical difference between toxic adenoma and exophthalmic goiter E 5 PLATT M D

as the particular tooth involved and the type of lesion must be taken into account

The lower wisdom teeth must be considered exparately. In these two different pathological conditions occur. The most frequent lesson is an inflammation of the denial asc without incoherent of the bone or periosteum and without curies of the tooth. The symptoms—trassin pain, fever and permandioular swelfing—are severe, but usurily sub-dar after incoron of the overlying goan and lavage and after incoron of the overlying goan and lavage and after incoron of the overlying goan and lavage should be removed but its extraction should be also also with a street of the infection has become quested. When a true osteoperositis develops the treatment should be that applied to other teen!

It is generally agreed that benign cases of dental infection should be treated conservatively. In cases of moderate severity with slight suppuration at the apex, conservation of the tooth is often possible However all depends on the evolution of the in fection. As a rule the infection subsides under con servative treatment Moreover, experience has shown that early extraction is apt to spread it and protoke an acute osteomy elitis especially when the shape of the tooth renders extraction difficult and traumatizing I arly extraction may offer a means of drainage but does so only in 50 per cent of the cases It is much more simple to incise a collection of However if the suppuration continues, the tooth should be extracted

Sinusitis is always a formal indication for ex-

traction. When the symptoms are very severe indicating osteomyelitis of considerable extent one or more teeth should be immediately sacrificed and the alveols prudently opened. This complication are compared by cellulitis calls for wide submarillary and submarilla incisions.

ALBERT F DE GROAT M D

PHARYNX

Wilkinson II F Pathological Changes in Tonsils A Study of 10 000 Fairs of Tonsils with Special Reference to the Presence of Cartilage Bone Tuberculosis and Bodies Suggestic of Actino my costs Arch Observage 1 929 x 12,

All tonals also we evidence of chronic infection if the presence of levicopy test in the crypts and theretation of the epithelium is a n indication of infection. In 14 2 per cent of tonals there are pathodogened changes of biazire types. In 11 21 per cent there are cartilage and bone in a ratious proportions. Cartilage occurs in relatively larger amounts than bone. Chronic infection is admitted factor in the production of the production of cartilage and bone in the production of cartilage and bone in thousand in the production of cartilage and bone. In thousand in the production of cartilage and bone. In thousand in direct relationship to a cartilage and bone in thousand in direct relationship to a cartilage and bone.

Bodies similar to those found in cases of acti nomycosis occur second in order of frequency in pathological conditions of buarre type in the toal Tuberculous of the diffust type has a modered of \$3 per cent and is on the decline. In o 1 per cent of tonslis there is bulateral involvement with their culous. Inference of occurrenced catalyses and the culous. Inference of occurrenced catalyses and the tonslis. Cholesterol can be seen in 6 ig precise of the tonslis. Cholesterol can be seen in 6 ig precise of the tonslis. The characteristic processes of the tonslis. There is sufficient that proceedings to the control of the

Paterson D R Tuberculosis of the Faucial Tonsils and Filargement of the Jugulodegas tric Glands J Laryngol & O ol 1929 the 514

Of 161 cases in which a chinical diagnosis of tuberculous enlargement of the jugulodiga tno glands was made and the tonsils were subjected to histological examination the tonsils were found in volved in 57 (35 per cent) Such a high incidence of ton-illar involvement indicates the advisability of enucleating the faucial tonuls in the treatment of tuberculosis of the glands of the neck if possible this should be the first step in the treatment but if the cervical glands show a tendency to break down to may be necessary to operate upon the neck first in order to prevent an unsightly scar Unless the affected tonsil is removed there is likely to be s return of the disease in the cervical glands Itappears probable that in children there is a greater tendenty than in adults for tuberele bacilli to pass through the tonsils and infect the cervical glands without giving rise to the formation of tuberculous foci in the tonsils

In none of the 161 cases reviewed was it possible to make a clinical diagnosis of tuberculous infection of the tonsils. In most of the children under twelve years of age the affected tonsils were enlarged but in those over twelve years of age the tonsils were outlined to the following the property of the property of

NECK

Heyd G. G. Riedel s Struma Benigh Granuloms of the Thyroid Surg Clin \ Am 1929 ix 493

Refel a strama is a chronic inflammatory discase of a granulumation anture. It is comparatively rar of a granulumatic properties of the second and fourth services of the second and fourth and the first of the first second and fourth and as about equally, common and sever Syphilis and tuberculoss do not appear to be examine agents but detail infection may play a tobe in its development. It is not dependent on gotter

The common symptoms are d)-proca loss of voce, a tracheal pull and a midline pain beneath the critical cartilage. Dysphagia is rare. The dyspawa which develops early is more marked than would be supposed from the size and location of the growth On palpation the thyroid is found remark.

Rabinowitch I M The Effects of lodine Treat ment with and without Vltamins on the Basal Metabolic Rate in Exophthalmic Golter Cana dian W Ast J 1020 XV. 156

The relationship of jodine to thy rold activity is as yet unknown Some believe that in exophthalmic gotter the supply of jodine is insufficient. The author does not accent this theory. In support of his opin ion he calls attention to the fact that when iodine is given and the gland stores an increased amount the basal metabolic rate may still remain high From an analysis of normal and benign pathological theroid tissue he concluded that some lactor other than todine insufficiency to responsible for exophthalmic gotter As it is apparent that vitamins are concerned in the metabolism of inorganic elements it occurred to him that a deficiency of vitamins might be a

McCarrison demonstrated that vitamins may be coocerned with the metabolism of sodine and Harvey found that after the administration of cod liver oil to coats the jodine quotient in the milk of the animals was increased Harris and Moore re cently demonstrated that a lack of Vitamin D causes a denotency of phosphorus or calcium or both and defective calcification whereas an excess of this vitamin results in an excess of these elements with excessive calcification

In his investigations to determine whether there is a similar relationship between jodine and hyper thyroidism the author treated twelve cases of ex ophthalmic gotter with Lugol's solution and twelve cases with a mixture of Vitamins A and D and an iodofatty acid and compared the effects of these treatments on the basal metabolic rate. The vita min mixture was administered in capsules each con-

terming 1.250 timits of Vitamin A. 250 units of Vita min D and 30 mgm of todine Two cansules were owen dails. In the cases treated with Lucol's solu tion the average decrease in the basal metabolic rate was a 2 per cent whereas to those treated with the vitamins it was a 7 per cent

Experiments were carried out also in two other cases. In one in which the initial basal metabolic rate was 4-78 per cent the nation; was placed at rest in bed for ten days and than given I ugol's solution to the amount of 120 mem of joding per day. At the end of twenty days the basal metabolic rate was constant at 457 per cent. At this stage two vitamin capsules were given daily. On the fortieth day the basal metabolic rate was 50 per cent Thereafter it increased

In the other case an initial basal metabolic rate of +85 per cent was reduced by ten days of bed rest to +60 per cent and on the fifteenth day the admin istration of Lugol's solution to the amount of 120 mgm of sodine daily was begun. The lowest basal metabolic rate under this treatment +5 per cent ment two capsules representing 2 mgm of iodine daily (normal requirement), was then begun On the fortieth das the basal metabolic rate was +41 per cent. It then began to rise

The author concludes that the administration of large quantities of Vitamins A and D influences the course of exophthalmic goiter but he is unable to explain the mechanism of the action. He succests that the vitamins function by assisting the assimila tion of the iodine by acting on the secreting function of the thyroid or indirectly, by acting first on the metabolism of other morganic elements such as calcium

John H Woolsey M D

Rurwell C. S. Smith W. C. and Neighbors DeW. The Output of the Heart in Thypotoxicosis with the Report of a Case of Thypotoxicosis Combined with 1 mmary Perulcius Amernia 1m J. W. Sc. 19, c. Caxum 175

The case reported was that of a man who de veloped signs of hyperplastic (exophthalmic) goiter at the age of twenty three and was subjected to partial thyroidectomy at the age of twenty six He was then in good health for two years When he was thirty two verts of age he was given roent gen ray treatment of the thyroid region because of recurrence of the thyrotoxicosis When he was three four years old examination revealed in addition to marked thyrotoxicosis a palpable splcen brownish pigmentation over the front of the neck The erythrocyte count was and achlorhydria r 200 000 the leucocyte count 3 200 and the hæmoglobin value 24 (Sahli) Transfusion the hæmoglobin value 24 (Sahli) administration of iron and arsenic and rest were followed by slight improvement. When the patient was thirty five years of age the feeding of raw liver Rapid improvement then resulted When he was last seen at the age of thirty six he was in good general condition

Studies were made in this case to determine the cardiac output when the anzima was present and later after it had been relieved. In increase in the down and of the book for over some was found to be met by an increase in the volume of the creatiation rather thin by increased other words, there was a great increase in the words there was a great increase in the word of the Next.

Join II Mousey M D

Zimmerman I M Exoplithalmos Following Operation for the Relief of Hyperthyroldism In J M Sc., 1929 clevens 92

Exophishimos is frequent in severe thirotowco is and after operation usually freedes or distippents. American proprise split cases in which it developed after immediately marked the profession. The putnets ranged in age from the proprise split cases in which the developed free the operation to normal or subnormal. The create in rever case the metabolic rate fell after the operation to normal or subnormal. The ophishimos was not accompanied by any other man festation of hyperthirotom. In most instances the increased prominence of the even was accompanied by companied with the companied of the co

In five cases the evophthalmos was bulteral. The interval between the operation and the appearance of the exophthalmos ranged from three to teche months. In every case the condition presisted with out improvement. Three of the patterns had evop mild evophthalmos at the time of operation and two others showed lagging of the upper cycled. Microperation four showed evidences of by pothy poddsm and three had basin intelabolic rates ranging from 15

to 19 although they were free from ampions of hypothyroidsm. Fix epatients received thyroid substance before the appearance of the eye conduma. None received sodine before the development of the exophthalmos except before and immediately after the operation.

The roid substance had no effect on the eves after the prominence appeared. In two patients today crussed a temporary slight recession of the eye hulge F S Money MD

Don C S D The Treatment of Exophthalmic Gotter Brit M J , 19 9 v 1100

Don compares the results obtained in the trest ment of by perthyroid: m by (r) rest combined with the administration of iodine, (2) \ ray therapy and (3) surgery

Thirty six of the cases reviewed were treated by rest and the administration of sodine thirts-one of them for the first time. In eight cases in this group the pulse and metabolic rate were reduced to the normal In eighteen there was marked improve ment In four no or only slight improvement resulted and in one case the condition became definite Is worse In sixteen cases a second course of rod e was given. The longer the interval after the fint course the better the chance that the drug will set a second time In six cases the improvement was marked and in five cases it was slight. In two cases the condition became definitely worse. Three of the patients died In 37 per cent of the cases the tesult of the second course of judine was equal to that of the first Improvement after the administration of jodine is only temporary and a relapse follows discon tinuance of the drug During the treatment the weight increases although the metabolic rate may rise

In section the second section of the second section is a second section of the second section in souther section secti

Thenty, two cases were operated upon after perforantion with uodine and rec. In these three perforantion with uodine and rec. In these three perforance with the control of the resultance of the remaining twenty three patients were do four were markedly benefited and tun of the perforance of the remaining twenty three patients were retained four were markedly benefited and tun of the performance of the perform

The author concludes that nodune should be it served for pre-pre-take preparation that \text{Transment should be tred for a period not exceeding sex months and that patients who show no inspection of the time should be treated surgically. F. S. Monray, M.D. surgically.

Rabinowitch I M. The Effects of Indine Treat ment with and without Vitamins on the Basal Metabolic Rate in Exophthalmic Goirer Cana dian M 4ss J . 10 0 XXI 156

The relationship of judine to thiroid activity is as yet unknown. Some believe that in exophthalmic gotter the supply of todine is insufficient. The author does not accept this theory. In support of his opinion he calls attention to the fact that when iodine is given and the gland stores an increased amount the basal metabolic rate may still remain high From an analysis of normal and benign pathological thyroid tissue he concluded that some factor other than iodine insufficiency is responsible for exophthalmic gotter. As it is apparent that vitamins are concerned in the metabolism of inorganic elements it occurred to him that a deficiency of vitamins might be a

McCarrison demonstrated that vitamins may be concerned with the metabolism of iodine and Harvey found that after the administration of cod liver oil to goats the iodine quotient in the milk of the animals was increased Harris and Moore recently demonstrated that a lack of Vitamin D causes a deficiency of phosphorus or calcium or both and defective calcification whereas an excess of this vitamin results in an excess of these elements with excessive calcincation

In his investigations to determine whether there is a similar relationship between jodine and hyper th roidism the author treated twelve cases of ex-ophthalmic goiter with Lugol's solution and twelve cases with a mixture of Vitamins 1 and D and an iodofatty acid and compared the effects of these treatments on the basal metabolic rate. The vita min mixture was administered in capsules each con

taining v. 250 units of Vitamin A 250 units of Vita min D and 30 mgm of sodine Two cansules were given daily In the cases treated with Lugol's solu tion the average decrease in the basal metabolic rate was 7 2 per cent whereas in those treated with the vitamins it was 4 7 per cent

Experiments were carried out also in two other cases. In one in which the initial basal metabolic rate was +78 per cent the patient was placed at rest in hed for ten days and than given I ugol's solution. to the amount of 120 mem of jodine per day. At the end of twenty days the basal metabolic rate was constant at +57 per cent At this stage two vitamin capsules were given daily On the fortieth day the basal metabolic rate was so per cent. Thereafter it

increased

In the other case an initial basal metabolic rate of +85 per cent was reduced by ten days of hed rest to +60 per cent and on the fifteenth day the admin istration of Lucol's solution to the amount of 120 mem of jodine daily was begun. The lowest basal metabolic rate under this treatment +52 per cent was reached on the thirtieth day Vitamin treat ment two capsules representing 2 mgm of jodine daily (normal requirement) was then begun On the fortieth day the basal metabolic rate was +ar per cent It then began to rise

The author concludes that the administration of large quantities of Vitamins A and D influences the course of exophthalmic goiter but he is unable to explain the mechanism of the action. He suggests that the vitamins function by assisting the assimilation of the sodine hy acting on the secreting function of the thyroid or indirectly by acting first on the metabolism of other morganic elements such as calcum JOHN II WOOLSEY M D

SURGERY OF THE NERVOUS SYSTEM

BRAIN AND ITS COVERINGS, CRANIAL
NERVES

Melver J, and Wilson G Spontaneous Subarachnoid Hæmorrhage J im M fss 19 9 zcm 89

A review of the literature reveals that spontaneous subarachnoid hemorrhage is more common than is generally believed. The earliest report on the condition was made in 1886 by Bramwell who gave as the three most important etiological factors calcare ous degeneration, aneurism of the cerebral vessels and hamophilia nithout change in the vessel malls The authors state that any condition causing changes in the walls of the peripheral vessels must be considered a possible cause of changes in the meningerl vessels The most common causes are thought to be syphilis trauma embolism mycotic processes and the acute infections especially meningitis and acute rheumatic fever In the acute infections the cause is probably an infectious embolus. Arteriosclerotic degeneration is found in many cases showing no clinical evidence of its presence

The onset is sudden. The mentality may be disturbed to the extent of somnolence stunor delinum or coma Consciousness may be lost com pletely Stiffness of the neek develops and Ker nig s sign is always present. The pupils may be small unequal, or dilated One or more of the cranial nerves may be involved. There may be Pattral or camplete hemiplegia. The face and arm are involved more often than the leg because the hamorrhage is usually of basilar origin with con-sequent pressure of the clot on the face and arm l'endon reflexes are variable skes sign may be present on the involved side Headache is usually severe and somiting may be persistent I ain or pressure is occasionally noted at the site of hamorrhage. The pulse and respira-tion may be slow or rapid depending on the amount of intracranial pressure and shock. A moderate rise in the temperature is frequently noted. The spinal fluid is bloody and under increased pressure The eyegrounds often show marked changes with choking of the optic nerve or sclerosis of the retinal vessels and numerous hamorrhages Leucocytosis has been reported Glycosuria and hypergly czemia are found occasionally but disappear under spinal drainage. The mental symptoms persist for a variable length of time and subside gradually

The possibility of this condition must be considered in cases of sudden illness with headsche followed by stupor or coma. In many of the cases in the series reported a tentative diagnosis of meninguis, encephalitis uremia diabetic coma or crebral apopicty had been made. Examination of

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the spinal fluid is of great value in the daymout Bloody spinal fluid is rare in encephalta and meningitis. The possibility of brain tumor, epically a tumor located in the position foss, should be excluded before a spinal puncture is done. The end of the spinal position for the spinal position for a spinal position for a spinal position for a spinal position for the spinal fluid is repetitive for the presence of blood in the spinal fluid is reptained to the presence of blood in the spinal fluid is reptained to the presence of blood in the spinal fluid is reptained to the presence of blood in the spinal fluid is reptained to the presence of blood in the spinal fluid is reptained to the presence of blood in the spinal fluid is reptained to the presence of blood in the spinal fluid is reptained to the presence of blood in the spinal fluid is reptained to the present of the spinal fluid is reptained to the spinal f

In the treatment of this condition spand dramage should be done daily until the fluid is clear Prolonged rest in bed is importate and treatment of the underlying condition should be instituted. A moderate dose of imageneous subplate 60-by control of the control

Sargent P and Greenfield J G Ilamsington atous Cysts of the Cerebellum Bril J Surf 1929 2vil 84

According to Lindau cerebellar cyst may be divided into the following classes (1) dermod east and chole-teatomata (2) cysts formed as a resil of hemorrhage or softening (2) parasitic cysts (cysts in relation to a tumor (3) simple cysts and (5) cysts in communication with the fourth version cysts in communication with the fourth version cysts in communication with the fourth version. The cysts is communication with the fourth version cysts cause for the cysts of the cys

In several cases a close relationship of the con dution to head trauma was established and in one case there was a history of the familial incidence of cerebellar tumor a cyst in a brother and a sister

No relationship was noted between the size of the cyst and the size of the tumor. The cysts were rounded and had smooth walls. The harmangomata were always embedded in the corter of the cerebed lum and frequently lay in a small dimple in the wall.

of the cost Grossly the tumor appeared as a clearly defined rounded mass. Its cut surface was a red dish yellow and presented multiple minute cavities. In a review of the literature it was noted that angiomation 50% of the cerebellum frequently cocust with retinal angiomata. hypernephromata or cystic disease of the kidneys or pancress.

Of surgical interest in angiomatous cests is the characteristic absence of a luming membrane the builds of such cysts being formed by condensation of the port for the port of the port of the cyst sarrily brings about a permanent cure, the tremoval of the turnor from the suff of the cyst seems to pre-tent the recurrence of symptoms and brings about complete restoration of cerebellar function to making the complete restoration of cerebellar function. The dentate nucleus is never destroyed or briden into the first of the first function of the cyst. See Exp. 11 though the properties of the cyst. See Exp. 11 though the properties of the cyst. See Exp. 11 though the properties of the cyst. See Exp. 11 though the properties of the cyst. See Exp. 11 though the properties of the cyst. See Exp. 11 though the properties of the cyst. See Exp. 11 though the properties of the cyst. See Exp. 11 though the properties of the cyst. See Exp. 11 though the properties of the cyst. See Exp. 11 though the properties of the cyst. See Exp. 12 though the properties of the cyst. See Exp. 12 though the properties of the cyst. See Exp. 12 though the cyst. See Exp. 13 though the cyst. See Exp. 14 though the cyst. Se

Rupp F Tumors of the Hypophysis and Sur rounding Structures—Intracellar and Supra sellar Tumors Tumors of the Olfactory Fosts and the Company of the Company of the ode of Approaching Them Surgically (Die Ce thouseliste der Hypophyse und there Umpebunnits und supra sellar Tumors Tumors and of the Zurangasecy Dottiela Zuder J Chr. 199

Topographically, a distinction is made between (t) hypophyseal tumors (a) suprasellar tumors (3) tumors of the ollaetory fossa and (4) peduncular and bypothalamic tumors To the first group belong the true bypophyseal tumors. These vary greatly in their histological structure, but the majority are adenomats and eysts. They may be definitely dif ferentiated from the other groups because of their narrowly delimited location They are characterized roentgenologically by ballooning out of the sella turcica They may be distinguished roentgeno logically from extrasellar tumors by the absence of destruction of the clinoid processes. They are char acterized clinically by endocrine disturbances mani fested by such conditions as Paltauf's dwarfism acromegaly Simmond's cachevia Froeblich's dys trophia adiposa genitalis and Brugsch's dystrophia osteogenitalis acromicria Bilateral contraction of the visual fields is only a secondary sign. Choked disk is nearly always absent. Increased intracranial pressure occurs late. The only treatment to be con sidered is operation

To the second group of tumors under discussion blong the new growths above the antenor border of the toof of the sella Most of three are so called evidentholmata. Americans speak of suprasellar managomata (Cushing) These tumors because of their position show a quite typical disease peture. They include also the atty neally located adenoma of the unterno bloe and tumors of the infundibulum for unterno the sell of the sell o

Choked disk is noted only in severe cases, and dis turbances of internal secretion are not present until the condition is advanced

The third group under consideration computes tumors of the ollactory loss which also are en dethedromata. In appearance and structure these menolarsms resemble the suprasellar meningiomata. Their point of origin is supposed to be the meninges of the olfactory sulus. The earliest sumptom is anosmis. This is followed by contraction of the visual fields and disturbances in the frontal sinus. Cholled disk is usually present. As a rule the room of the properties of the structure of the suprase of the suprase of the surface and the suprase of the surface and the surface and

The fourth group is made up of the prognostically unfavorable ventricular and peduncular tumors lying intracerebrally in the substance of the hypo balamis. Histologicalls most tumors of the crus ecrebri (poduncular tumors) are basiliomata and silomata tend to appear in young persons and are of slow growth. Typical signs of peduncular tumors are somnolence ataxa, and polyuma. Pressure on the classima produces contraction of the visual fields but frequently this is not very marked. Choked disk and endocrine disturbances are present with great consistancy. On routine externiation the wing great consistancy. On routine externiation the many disturbances are present and the production of the flux vertical claims now a production of the third vertical claims and the production of t

In conclusion the author discusses the operative technique. The transfrontal route is the route of choice for suprasellar tumors and meningiomata of the olfactor, fossa (Groups 2 and 3) and the trans sphenoidal route for tumors of Group 1

HELLNER (Z)

Dandy W.E. An Operative Treatment for Certain Cases of Meningocele (or Encephalocele) into the Orbit 4rch Ophth 1929 pt 123

The case reported was that of a stytem pear old grd who presented a pulsating exophthalmos of the left side with downward and inward deviation of the eye. In the examination it was borne in mind that a pulsating exophthalmos may be caused by (a) an arternovenous aneurism of the brain, or cavernous sinus () an arternal and arteriovenous aneurism of the orbit of (a) and effect in the roof of the orbit. The patient had a minor deformity of the left ear and X ray examination showed absence of the posterior half of the orbit and great thinning of the bone over the entire frontial area.

The operative approach was that routinely used for bypophysed tumors. A measured transpart of bone from the outer table of the stall was not ditted subdually over the bone defect. Operation revealed the following other congenital deformatise (1) a memagociee (1) a large extradural ven with apparently replaced the cavernous sums and (3) absence of the internal carobid artery on the affected side. In addition the outer surface of the brain was overed with large pools of fluid in the subarrachpoid overed with large pools of fluid in the subarrachpoid.

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space and the leptomeninges were opaque and greatly thickened

The exophthalmos completely disappeared with the subsidence of the postoperative ordems and seven teen months later the internal strabismus and ver tical deviation were corrected by resection and advancement of the external rectus muscle Twenty one months after the operation a slight dounward displacement of the eyeball still remained, but the eyes focused well the extra-ocular movements were nearly normal there was no exophthalmos or pulsa tion of the eyeball and roentren examination showed the graft to be unchanged KNUT II HOLER M.D.

SPINAL CORD AND ITS COVERINGS

An Attempt at Operative Treatment of Syringomyella by the Method of Pussep (Versuch einer operativen Behandlung der Syringo mythe nath Pussen) Leafs Chie 1929 xvi 8

In seven cases with pronounced symptoms of symptomyclia (muscular weakness disturbances of the pain and temperature sense and trophic disturbances) the author opened the spinal cord in the cervical portion according to I ussep's method In three cases the improvement was so marked that it bordered on complete cure In no instance were there any serious sequelæ In one case in which the opening into the central canal was made in front of the denticulate ligament, through the anterolateral tracts a spastic condition of the arm developed. In two cases, the incision in the soft parts did not heal by primary intention the edges separated but there was no trace of suppuration and healing occurred later by second intention Pussen noted this same phenomenon in two of his first four cases. In only one of Oppel's cases was the operation without re

The operation is based on the assumption that many of the symptoms are due not directly to the chomatosis but to the pressure of the cerebrospinal tluid in the central canal The technique is simple Laminectoms of the 1xth and seventh rervical and first dorsal vertebræ is done the dura mater is opened, and a test puncture of the central canal is made 4 mm lateral from the midline on the side of the pathological changes The central canal is opened with a fine scalpel for a distance of I cm and the fluid drained off. The duta and soft parts are then sutured. In some cases it may be better to make the incision into the central canal through the anterolateral tracts or posteriorly in the midline through the posterior sulcus and the posterior commissure

SURGERY OF THE CHEST

TRACHEA, LUNGS, AND PLEURA

Pool E II and Garlock J H A Treatment of Petsistent Bronchial Fistula Ann Surg 1920 Ct, 13

Bronchal fistule occur most commonly with emprema thoracs and lung abscess I be majority close spontaneously. Persistence of a fistula may be due to suppuration in the parenchyma of the lung or the hronchial tree the presence of a rigid walled emprema cavity into which the fastula opens the formation of a bronchocutaneous channel or the presence of a fortest body

Operative closure of a bronchial fistula should not be attempted until the need for drainage of a

lung suppuration has passed

Very small fistulæ will frequently close following the local application of a cauterizing agent For the closure of a bronchial fistula which per

sists in spite of conservative measures the authors describe an operative procedure consisting in plug ging of the fistud with a pedunculated muscle flap. The operation is simple and widely applicable and has proved successful in the authors experience. The production of a bronchal fistual in an event

The production of a bronchial fistula in an experimental animal is attended with great technical difficulties. Although the experiments reported by the authors did not duplicate exact; the conditions found in man the results obtained indicate clearly the processes of repair following closure of a bronchial fistula by the method described

A muscle flap placed in a bronchial fistula to effect its closure remained viable and was not completely replaced by fibrous tissue. Microscopic examination at the end of a year showed inflact muscle fibers and growth of bronchial epithelium over the muscle flap.

Howard A McKasent W D.

McEnery E T Aspiration in Empyema of Chill dren J Am M tas 1929 xcm 36

At the Children's Memorial Hospital Chicago 37 patients were treated for empyema in 10 8 Thirty two were treated by aspiration alone Of the e 28 were completely cured. One of the 4 others had I aspiration and died of pneumococcus septicamia pneumonia and meningilis. At autonss only 1 oz. of pus was found. Another was taken home against advice. The third was at no time a safe operative risk and died from pneumonia and extensive pneu motherax after 10 aspirations with the evacuation of 3 635 c cm of pus from the left side and 300 c cm from the right side The fourth could not be traced The mortality was 9 per cent It is reduced to 6 per cent if the child with septicamia menin gitis and only a small encapsulated empsema con taining 1 oz of pus 18 excluded as appears justifiable

The aspiration was done with a large Lier syrings or a modified I totain signification under local anaesthesis induced with 1 per cent provogante by drochloride. No shock or alarming as primons were noted in 122 aspirations? Empyema does not constitute an emergency. Aspiration or operation must not be done too soon or too often. In the cases reviewed the number of aspirations varied from 2 to 11 and the number of aspirations varied from 2 to 11 and the internal between operations from two days to two weeks or more. The procedure was guided by the degree of respirationy embarrasament the location of the beast, and the temperature curve.

Cultures of the aspirated pus showed the pneumo coccus in ±8 cases the hæmoly the streptococcus in 25 cases, and the staphy lococcus albus in r case. The average stay in the hospital was three and half months. This can be reduced considerably by allowing the patient to go home between aspirations.

The temperature curve was rather uniform drop ping to nearly normal after an aspiration and then gradually returning to from nor to roy degrees F within one or two weeks. It was therefore to some extent an indication for repeated aspirations

Certain cases of extensive emplema were assocated with a sniking in of the upper part of the chest lowering of the shoulder and a lateral scolous with the concavity toward the affected side hut all of these sequelaw were completely corrected. The last signs to disappear were sight dulines and suplast signs to disappear were sight dulines and suplation of the signs of the signs of the signs of the presisted for some time signs the return to health.

Three objections to aspiration have been made that it is not possible to remove all of the pus that large fibrinous masses cannot be removed and that there is danger of puncturing the lung and causing Repeated roentgenograms have pneumothorax shown that large amounts of pus can be absorbed whether pneumothorax is present or not. The large fibrinous masses have given no trouble and appar ently are absorbed Pneumothorax occurs through injury to the lung by the aspiration needle or as the result of spontaneous rupture into a bronchus with free expectoration of pus Roentgenograms were of special aid in the presence of pncumothorax the clinical signs were of very bittle value in revealing the extent of the condition Spontaneous rupture was regarded as a favorable occurrence and pneumo thorax was not considered a serious complication

The treatment of these cases by aspiration alone was rot done as an experiment. Aspiration was necessary in the first case and because of the success ful result was continued in the others but always with the intention of resorting to the usual methods if necessary. The mortality is the lowest recorded.

except that in Kassowitz' inexplicable series of 50 cases treated by nb resection at an ambulatory clinic, in which the mortality was al o 6 per cent

The authors are convoiced that the youth of their patients was an important factor in the success of the treatment. Fifty per cent of the children were under or just three years of age, and it a per tent were under or just two years of age, and it a per tent were under or just one year of age. This believe that the under or just one year of age. This believe that the ter adjusted to the tens. One and it is painted as the certain the properties of the certain the certain the properties of the certain the c

cavities still act as nearly a chamber.
The favorable results reported from aspiration followed by irrigation with 0.5 per cent ethyl hydrocuprence are regarded as no better than the author's results without ethyl hydrocuprence.

Aspiration is not advocated as a routine measure for all cases, but is presented as the procedure of choice in infancy

E \$ LEATT M D

HEART AND PERICARDIUM

Bowers L G | Lericardotomy for Pyopericardium.

Suppurative percarditis is in most instances the result of the extension of an infectious process of the lung and pleura. In many cases it has followed a perforating wound with direct implantation of the infecting agent. As the exudate which collects in the relatively small percardial sac can find no physiological outlet the early establishment of aurical distange offers the hest prognosis. Per cardotomy is a simple procedure which is associated with httle or no rule and may save the

In the author's technique a curvilinear incision is made along the left border of the aterum begin ming at the fifth left sternochondral junction and extending laterally just below the inferior border of the sixth rib to a point 2 cm to the left of the costochondral junction. The dip is dissected upward from the underlying rib to expose the costal cartilage of the sixth rib, and the costal cartilage arrange of the sixth rib, and the costal cartilage is removed. The pleura and lung are then drawn strendly by means of a broad fraction and along the cost of the cost

The balance of the exudate is drained by attaching a large Liver syrings to the free end of the tube and using suction. A pursestring suture is then placed around the trocer it the tocar is withdrawn from the sac and a male catheter of semilar cabber is introduced and fixed with the pursestring suture. The sac is then irrigited with r liter of physiological satis solution. The catheter is finally drawn through a stab wound 1 in above the incode with interrupted strenum, and the wound is closed with interrupted strenum, and the wound is closed with interrupted

sutures Finally the drainage tube is connected with a large bottle containing actiseptic fluid. The drainage tube is kept opin hy daily injections of sterile saline solution. ANTIONY F SAM M.D.

ŒSOPHAGUS AND MEDIASTINUM

Oulié Antelhoracle Exophagoplasty b the Wullstein Lever Procedure for Impassable Cleatifelal Stenois of the Thoracac Exophago Gure Good Functional Result (Exchaer-plastic antiboracque par le pracéié da Wulstra Exert pour sténose castructle infrartacsaile et Leophage thoracque gurin on bon résulte le Leophage thoracque gurin on the final transcription of the Common Common

The patient whose case is reported by Oulse was man aged terent two years who had anauored a mouthful of hydrichlene acid. For eight dry thereafter he was alse to each that at the end of that the end of the control o

At operation performed August 11, 1925 the lower part of a new ersophagus was formed from a loop of segunum. At a second operation performed September 20 a cervical asophagostomy was done At a third operation performed November 19 an attempt was made to form a cutaneous tunnel to unite the cervical onlice of the asophagostomy with the thoracic onlice of the jejunostomy. The onlices were 18 cm apart The union of the flaps was not perfect. At the end of several weeks only the lower half of the tunnel was cicatrized and able to func tion In a fourth operation a second attempt was made to connect the asophageal ornice with the cutaneous ornice Three further operations in two years gained some ground and in 1928 after treat ment for syphilis and polyvalent pre operative vaccination complete closure was obtained One year later the patient was able to eat all kinds of

Cuxto who presented Oulie's report to the Society, reviewed the various techniques which have been used for the formation of a prethoracie peoersophagus He stated that the Roux operation can be successful only rarely because it is difficult to obtain a long enough loop of small intestine especially since the length of the loop is usually dimin ished by gangrene of the upper portion. The Herren modification (unilateral exclusion of the loop with lateral enterogastrostomy and passage of the loop behind the transverse colon across the mesocolon) his the advantage of reducing the danger of gan grene and slightly decreasing the length of the jejuno orsophageal tract However, experience has demonstrated that it is not always easy to find a loop long enough to extend up to the neck. Lexer

performed the Herzen operation, but established the jejuno ersophageal union by means of a cutane ous tunnel This is the Wullstein Lexer operation or jejuno-dermato esophagoplasty. It is applicable to all cases the length of the cutaneous tunnel compensating for insufficient length of the loop Braizen constructed a tunnel with cutaneous flans and obtained good results in seven of eight cases The most delicate stage is the joining of the cutane ous tube to the exsophageal orifice and the gastric cavity The lesser seventy of the dermato esopha coplasty is almost compensated for by a certain inferiority of the functional result

TUFFIER in discussing Onlie's report said that he had used Roux's technique in five eases. The difficult stage was the ersophago intestigal anasto mosis when the sutures cut through leaving a Pare

fistul₁

Cleminson F J Thoracotomy in the Treatment of Malignant Disease of the Esonhagus by Radon J Laringol & Olol 1920 xliv 577 Woodman M The Insertion and Use of Radon

in Cancer of the Œsophagus J Laryagel & Ot 1 10 0 xhv, 584

CLEMINSON states that articles by Birkett on the treatment of carcinoma of the tongue with radium and by Ramanis on access to the resondagus by thoracotoms suggested to him that it might be pos suble to improve the results obtained in carcinoma of the esophagus by introducing radon seeds into the periphery of the growth by means of thoracotomy He reports four cases treated in this way

WOODMAN states that the treatment of cancer of the ersophagus by the introduction of a large dose of radium into the center of the growth has definitely

failed. The dose so applied is not in contact with the oldest and most necrotic part of the growth and is farthest away from the actively growing edge Moreover it is in contact with the sensis which always lines the center of the neoplasm and there fore increases the septicity. The presence of a length of time favors ulceration and stricture for

The ideal method consists in attacking the growth by a crossfire of radium from without and by tubes inserted into the substance of the growth Radon tubes which do not require removal and which obviate the danger of loss and irritation are of advantage

The insertion of these tubes through the orsopha goscope into the growth is more simple than is at first apparent. The tubes are introduced by means of special instruments designed on the principle of the trocar and cannula At each operation five needles are placed well into the substance of the growth Their position and the changes in the growth are checked by \ ray examination

Improvement in swallowing has been consider ably better than expected It usually begins in about a week Bougies have not been passed nor diathermy used although there are no objections to these procedures There has been no general reac tion nor any immediate mortality Thirty five intro ductions of radon have been made by the author

Two obvious critici ms to this method of treat ment are (1) that possible involvement of medias tinal glands and secondary deposits are not taken into account and (2) only the upper half of the growth can be treated at first

WILLIAM E SHACKLETON M D

SURGERY OF THE ABDOMEN

ABDOMINAL WALL AND PERITONEUM

Godard II and Smith P Hernie of the Pos terior Omental Cavity (I es bermes de l'arnère cavité des épiploons) Rer de chir Par 1020 alvu 6s

Complex herain of the posterior omental cavity are quite rare. The transmesocobe varieties are produced through an orifice in the transverse mesocolon by an operative or accidental traumatism or an in flammatory or neoplastic lesion. They ascend in the posterior omental cavity and following an upward retrogastric course perforate the gastrohepatic ligament and fall in front of the stomach and the large intestine into the great pentoneal cavity. In exceptional cases the hernial mass which has penetrated into the posterior cavity becomes engaged in an ortice of the gastrocolic ligament. It may also return to this large cavity by way of the natural orifice of the retrogastric bursa t e the foramen of Winslow

Godard and Smith discuss also those hernie of invested course which penetrate into the posterior cavity through the foramen of Winslow Pass behind the stomach and emerge by an orifice in the meso colon

These hernin manifest themselves clinically by phenomena of intestinal obstruction. They very soon necessitate surgical operation. In the majority of cases the transverse colon, the stomach, and the hermal orances are deeply buried under the loops of small intestine. In complex transmesocohe herma, which fall in cascades anterior to the stomach and the transverse colon where almost the entire in testinal mass is suread out in the upper portion of the abdomen and completely masks these organs the best course to adopt is to search first for the right or left angle of the colon and the gastric tuberosity

The authors report the case of a man aged thirty four years who sought treatment for suba cute gastric disturbances \ ray examination re realed duodenal stasss. A gastro-enterostumy had been performed three months before an account of gastric pain Amelioration of short duration was succeeded by pain and abundant bilious comiting Tay examination at that time showed pyloroduo denal dislocation and an elongated stomach con taining above the bismuth meal a considerable amount of residual fluid. The mouth of the gastro enterostoms was apparently not functioning There was also very marked duodenal stasss, and most of the duodenojejunal angle was above the lesser curs afule

When the abdomen was opened nearly the whole mass of small intestine protruded concealing from

view the transverse colon, its omentum and the The angles of the colon were found stomach Through a wide breach in the transverse mesocolon the primary rerunogastric anastomosi could be recognized This breach must bave been the portal of entry for the small intestine into the posterior cavity. The loops were lifted to one side toward the gastrobepatic transligamentous breach and gently drawn through to the other side by way of the transmesocolic orifice. Whenever trartion on a loop of small intestine ceased during the reduction the loop returned to the posterior cavity duction an over and-over suture was made of the zone near the anastomosis and the edges of the wife transmesocolic orifice until obliteration was com plete The patient left the hospital eighteen days

later in excellent condition The authors review about fifty cases of transmesocolic herma reported in the literature Organic tolerance of these hermin is remarkable. The operative difficulties are not great, and cure has been oh tained in nearly all cases. As a preventive measure after gastro-enterostomy the mesocolic ornices should be carefully closed by fixation of the stomach

to the perstoneal has

In herman through the foramen of Winslow, strangulation occurs early and is severe The authors have collected about thirty cases from re cent literature Complex varieties are described Mention is made of certain inconstant anatomical formations such as the cysticoduodeno er p'vic ligament and the infraspigelian ligament which by modifying the extent of the orifice of entry of the foramen may create unforeseen operative difficul ties In the majority of cases the position taken b) the surgeon must be that taken for operations on the biliary tract Reduction may be made by simple traction on the infrahepatic intestinal loop. If this does not suffice a finger may be inserted into the foramen to facilitate the liberation by forcing the floor down In many cases reduction is not possible The flaced portion of the lesser omentum should be split and the adhesions between the loops and the perstoneum of the posterior cavity or of the stomach should be freed. One may proceed toward the in ferior border of the foramen of the omental bursa Downward pressure on the hepatic falk by means of the finger is the only maneuver which permits straightening of the intestinal adhesion and re duction by gentle traction at the external onfice of the foramen This traction should be everted on the loop situated high in the foramen in contact with the liver since the inferior loop usually adheres to the bepatic falx and is difficult to disengage

The article is supplemented with a bibliography of PACE

nine titles

ffernia Through the Foramen of Douglas J Winslow Inn Sure 1929 XC 306

The author adds another case of herma through the foramen of Winslow to the thirty eight he has heen able to collect from the literature Ifis patient was a man fifty three years of age who was seized with severe pain first in the region of the umbilious and then in the epigastrium. The nain was followed hy vomiting which relieved it Roentgen examina tion showed a loop of bowel in the lesser cavity When the abdomen was opened the loop of bowel had returned to the greater civity but was identified by pressure rings on a loop of ileum 2 ft Irom the ileocacal valve. The attempt was made to prevent further invasion of the lesser sac by the small bowel by causing the formation of adhesions between the greater omentum and the abdominal wall so that the small intestine could not pass in front of the transverse colon W N ROWLES M D

Lawson G M and Smithwick R II Gonorrhoyaf Infection of Abdominaf Wounds Following Laparotomy Ann Surg 19 9 tc 243

Two cases of acute salpingitis simulating appen dicitis are reported. An unusual feature in both was secondary infection of the laparotomy wound by the gonococcus I ever and visible wound infec tion were present four and five days after the opera tion. In one case the diagnosis of salmingitis was obvious but in the other it could be made only by bactenological studies. The wounds were rapidly freed of gonococci by dakinization and treatment with re per cent argy rol

HOWARD & MCKNIGHT M D

GASTRO INTESTINAL TRACT

Ramstedt Operation for Pylorospasm in Infants (Zur Operation de l'ylorospasmus der Saeuglinge) Tentralbl f Chir 19 9 P 5 4

Ramstedt states that the war prevented the popularization of his operation but that in spite of this fact more and more internists have come to recognize the advantages of the operation although medical treatment which has made considerable progress in recent years should he tried first. He presents a groups of statistics - those of Ifeile who reported 75 operations with 3 deaths those of Kirschner who reported 5 operations without a fatality and his own series of 50 operations with 2 deaths which occurred on the sixth and eleventh postoperative days as the result of weakness. The 3 groups comprise 150 operations with a mortality of 3.4 per cent Ramstedt concludes that medical treatment can do no better and that in some of the cases treated medically the patient slife might have been swed by timely operation

In the author's technique the abdomen is opened hy a median incision 6 cm long heginning befow the ensiform process The stomach is then pulled through the incision and the thickened pylorus is grasped between the index finger and the thumb of

the left hand On the anterior surface, where the vessels are fewest an incision is made to the be ginning of the duodenum. The musculature is then solst not with the knife but a blunt pointed lancet like instrument down to the mucosa for a distance of 2 or 3 cm The blunt dissection of the muscle prevents injury to the mucosa Hæmostasis is ob tained by pressure with gauge or several interrupted sutures The abdomen is then closed and an adhesive tape dressing is applied around the thorax and the upper part of the abdomen

Whether the musculature is to he divided by blunt or sharp dissection as is done by Kirschner is a matter of choice However the author is opposed to the Hildebrand Gohrhandt wedge excision the Strauss pyloroplasty and the Loreta Nitton dilata tion. He performs the operation under ether narco

In the discussion PRUEND (Osnabrueck) recommended local anasthesia and stated that he often adds a small transverse incision to the longitudinal incision of the serosa

ORATOR (Duesseldorf) reported that Schlossmann has also become an advocate of the Ramstedt operation On von Haberer s service in Duesseldorf tt has been done on 14 cases with I death from hæmorrhage Immediately after the operation the children are placed again under medical treatment SIETTINES (Z)

llorsley J S The Mimicry of the Symptoms of Peptic Ulcer Illinois M J 10 0 lvi or

Horsley calls attention to the fact that the symp toms of peptic ulcer vary greatly and are frequently vague They depend somewhat on the type and loca tion of the ulcer as well as the type of the individual They show a marked tendency toward latent periods with comparative comfort followed by acute exacer bations occurring more frequently in the spring and fall On the basis of the symptoms the cases may be divided into three main types

In cases of Type I the chief complaint is the so called hunger pains which are usually relieved by lood soda gastric lavage or vomiting. These pains

may persist for several months

In cases of Type 2 the patient is first made aware of trouble by sudden harmorrhage with the comiting of blood and the passage of tarry stools In some restances tarry stools and anemia may he the only signs In cases of Type 3 the patient has no definite gas

tric symptoms hut complains of discomfort in the lower abdomen and of diarrhosa. The appetite is poor and there is a loss of weight

The three types of symptoms may occur separately or combined

The exact cause of the hunger pains is still un known The work of Cannon Washburn and Carlson has established definitely that in the normal stomach hunger pains are due to contraction of the gastric muscles The theory that the pains in cases of ulcer may be due to the hyperacidity accompany

ing the ulcer finds some support in the observation that patients with an active ulcer experience pains when dilute hydrochloric acid is introduced into the stomach through n tube However, patients with hypo acidity or even achylia are also subject to typical hunger pains

Higgins of St. Flizabeth's Hospital Richmond. I irginia studied the occurrence of hunger pains and food relief in 16 cases with symptoms of digestive disturbance in which an abdominal operation was performed These included 33 cases of chronic chole cystitis 47 of chronic appendicitis 34 of combined chronic gall bladder disease and appendicitis and 46 of peptic ulcer. A finding of interest was the relative frequency of hunger pains in gall bladder dis case appendicitis and duodenal infections. While relief of the pain from the ingestion of food has been generally recognized as a cardinal sign of duodenal ulcer fewer than one half of the patients with ulcer gave such a history and this sign was present in from & to 17 per cent of the eases of chronic disease of the gall bladder and appendix

Gastro intestinal homorrhage may not be due to ulcer of the stomach or duodenum. Its cause may be toxic erosions of the mucosa of the stomach or in testine congestion of the gustric veins, splenic throm bosis, hepatic cirrhosis or ruptured esophageal varices. The author cites a case in which it was due to a degenerating neurolibroma in the hepatic flexure

of the colon

In experimental studies of pylorospasm made on dogs Hughson noted that there is a tendency to ward pyloric spasm following peritoneal injury This is a reflex spasm, and the paths of the reflex are through the vagus nerve. After inducing pylonic spasm and delayed emptying of the stomach by ereating a lesion in the excum Hughson caused normal emptying by resecting the vagus nerve. He found that removal of the vagal branches at the mid portion of the stomach bas the same effect as severance of the nerve at the point where it enters the stomach Iforsley states that relief of the symp toms has resulted in most of the cases in which he has sectioned the vagus after removing a diseased gall bladder or appendix

From these observations it is apparent that the symptoms of peptic ulcer are simulated by other lesions and the mimicry may be most confusing However the cardinal signs of hunger pains food relief, and hæmorrhage are usually associated with other evidence that leads to the correct diagnosis In atypical cases of peptic ulcer the diagnosis may require careful clinical observation thorough labo ratory study and \ ray examination

JOHN W NUMBER M D

Safety Factors in Resection of the Lewisohn R Stomach for Gastroduodenal Ulcers Ann Surg , 1929 xc 69

The typical operation of resection of the stomach performed in the vast majority of cases of gastro duodenal ulcer removes a little more than one half

of the stomach It is therefore a partial gastrectomy In cases of large gastric ulcers and ulcers near the cardia the dissection must often be carned ven close to the cardia and in some instances from two thirds to four fifths of the stomach must be remo ed. This extensive resection is termed subtotal gastrectomy It should be admitted that partial or subtotal gastrectomy is an operation of consider able magnitude I ven in cases treated by expenenced surgeons the operative mortality will always be larger than the immediate mortality following gastro enterostomy

Lewisohn points out some of the factors insuring a greater margin of safety in partial or subtotal gastrectomy Large crater ulcers located in the second portion of the duodenum and with involve ment of the common bile duct and the ducts of the pancreas should not be resected Ulcers high up at the cardia demand total gastrectomy operation has a very high mortality and should be

reserved for the caremomata Ulcers on the posterior wall of the duodenim require careful dissection. The pancreas may be injured with consequent pancrestitis and fat necrosis Duodenal fistulæ result from madequate closure of the cut end of the duodenum One of the ehief factors of safety in any operation is the surgeon's experience. The patient's general rouds tion is also of great importance Chronic disease of the lungs beart or kidneys is more of a contra indication to stomach resection than old age Whenever possible ether anæsthesia should be avoided Patients with pyloric obstruction should be treated pre-operatively by gastne lavage hypodermoclysis and the administration of fluids by rectum If necessary, glucose should be ad ministered intravenously and blood transfusions given The author advocates pre-operative and postoperative blood transfusions when the condition suggests shock or general weakness and debults They often save life when given at the proper time

Spinal au esthesia seems superior to general anæsthesia and is followed less frequently by post operative pneumonia The duration of spinal anæsthesia as employed by the author is shout fifty five minutes As this is not sufficiently long for the Billroth II resection it is necessary to use nitrous oxide oxygen at the end of the operation When retention occurs the stomach tube is employed

the first day after the operation

After six years experience Lewisonn is convinced that the end results of partial or subtotal gastree tomy are far superior to those of simple gastro enterostomy with or without excision of the ulter

JOHN W ALZUM M.D.

Buerkle de la Camp H Perforated Gastric and Duodenat Ulcer (Ueber das durchgebrochene Magen und Zwoelffingerdarmgeschwuer) Muen ch s med Wehnschr 1929 1 453

In the first six months after Lexer assumed the direction of the Munich clinic twenty four patients were admitted with perforated gastrie or diuodenal ulcer. In five the perforation was incomplete. Of the innetien with free perforations: three who were admitted in a hopeless state died without operation of those operated upon, seven died who had been admitted from seven to forty eight bours after the perforation.

The nature of the operation is determined chiefly by the general condition and the state of the circula tion The most important task is the combating of the peritonitis. In Lever's clinic extensive irrigation with Ringer's solution is done and drainage is established Gastro enterostomy is not performed in every case but whenever resection is planned an anterior antecolic gastro enterostomy with a Braun entero anastomosis is done. Five of the cases reviewed were treated by primary resection (a Reichel Pólya operation in one case end to end gastro duodenostomy in one case and end to side implan tation of the stomach into the descending limb of the duodenum in three cases) Among these there was one case in which a perforated peptic ieiunal ulcer developed following a gastro enterestomy without pyloric exclusion performed two years previously. All of the patients treated by resection recovered COLMERS (Z)

Bager B The Occurrence Clinical Picture and Treatment of Perforated Gastric and Buodenal Ucers and an Investigation of the Lare Re sults of Various Operative Procedures (Bestrag rux Acastins ucher) ortonmen Kinek and Behand lung von perforeren Nigen und Dwodenlessch auf von Perforeren Nigen und Dwodenlessch sultate mach verschiedenen Operationsmethoden) idts zhung Stant 1999 [uw Supp n

The author has collected r 767 cases of perforated gastric and duodenal ulcer from 50 hospitals in Sweden which were operated upon by about roo sur geons during the period from 1911 to 1925 He him self has operated upon 28 cases obtaining a cure in He states that particularly since 1919 perfo rated ulcers have become considerably more frequent but the increase has been noted only among males Of the total number of patients whose cases are reviewed 27 2 per cent were women whereas of the number treated during the last five years only 19 6
per cent were women In males the condition was most frequent at about the thirtieth year of age and in females at about the forty fifth year of age. The increase in the frequency of the lesion in recent years was most marked among men between the ages of twenty one and forty

The mortality in the surgically treated case was 32.8 per cent. It showed a steady increase with in creasing age and with prolongation of the interval between the perforation and the operation. The results of operation have improved considerably, the mortality having been reduced from 41 per cent in the first five year period to 35.3 per cent in the second and to 37 per cent in the third. This improvement has been due chiefly to the fact that patients have recently been coming to operation earlier but has been brought about also by improvement in the operative technique

About two thirds of the ulcers in the cases resiewed occurred in the stomach and one third in the duodenum but the duodenal and suxtany loric ulcers (distal perforations) together constituted about two thirds of the total number of lesions and the ulcers of the saccus digestorius and the rest of the canalis egestorius (proximal ulcers) constituted one third The incidence of proximal perforations was about the same in men and women whereas that of distal ulcers was much greater in men. In both men and women proximal ulcers were most frequent at about the forty fifth year of age Distal ulcers were most frequent at about the same age in women, but at about the thirtieth year of age in men It was almost entirely the distal perforations that caused the marked increase in frequency of per forated ulcer during recent years

In the cases of most women and in those of men with prorumal perforations the history was more often long than short. The short histories were given most frequently by men with distal ulcers. Cases with short histories have become more frequent in the course of time than those with long histories.

All of these facts with regard to the site sex and age incidence, frequency, and history of the lesion point to the occurrence of two types of perforations—provimal perforations which occur with about equal frequency in men and women and distal per forations which are most frequent in the control of the state of the

forations which are most frequent in jounger men. It is possible that the increased use of tobacco is an important factor in the increased frequency of perforated uncers in jounger men.

With a view to determining the value of different methods of operation, the author made a detailed study of the 1,95 cases included in the main group of 682 patients treated merely by siture of the per foration 364 per cent died. In 616 cases in which sature of the perforation has suppliement of the perforation has suppliement to the perforation has supplied to the following the which resection was performed tabley was 25 per cent. In 171 cases in which only tabley was 25 per cent. In 171 cases in which only tabley was 25 per cent. In 171 cases in which only tabley was 25 per cent. The poorer results of simple sature as 68 5 per cent. The poorer results of simple sature as 68 5 per cent. The poorer results of simple sature as compared with gastro enterostomy were due un doubtedly to the fact that the patients treated by sature were an worse conditions.

The results in the cases treated by suture would not have been improved by gastro enterostomy, but in the cases treated by gastro enterostomy the mor tality would probably have been somewhat lower if the suture method bad been adonted.

The relatively low mortality in the cases operated upon by resection was explained by the patients better general condition. There is every reason to conclude that the mortality in these cases would have been very much less if the radical procedure had not been chosen.

The material reviewed included ar cases of perforated jejunal and gastrojejunal ulcers. Such le sions may occur after resection of the stomach. The author reports also cases not operated upon of which 2 were diagnosed roentgenologically from the dem onstration of free gas in the abdomen

At the Maria Hospital in Stockholm a special operative method has been employed fairly routinely during the last ten or fifteen years—iengthuse excision of the uter crossinse suture irrigation of the abdominal cavity gastrostomy and primary closure without detainage or tamponade. In 38 cases thus operated upon the mortality was only 115 per cent, and in 45 cases operated upon suthon six hours siter the perforation there were no deaths. The favorable results were probably due partly to the fact that continued to the patients came to operation early and more partly attentibable to the conservative method

However a study of the total number of cases in dicates that irrigation of the abdominal cavity did not improve the results. In cases in which the cavity has only apposed dry the mortality was 44 spec craft whereas in those treated by irrigation it was 44 per craft. Original of the cases with relevance to the per craft of the perforation and operation shows power treated in perforation and operation shows power created in the perforation also in the late case.

and in the site cases. The cases reviewed demonstrated the importance of primary closure of the abdomen as far as possible. The mortality in cases with primary suture was 21 is per cent, whereas in the cases with dramage it was 30 per cent. It is evident that primary closure 1 and 2 altered amount of evidate call for dramage but in all the mindral groups the same dissidvantages of drumage were evident.

The method by which the addominal cavity is cleansed—irrigation or sponging—plays no definite part in the production of postoperature abscesses but such abscesses seemed to develop somewhat more frequently in cases with drainage than in those with primary suture

many nature of the creatite of operations for perforated ulicer the author sent out a questionnaire. It is obtained that regarding 6% patients who but here it resided taleast a year previously. Three hundred and eighteen were treated by simple suture 3% by gastro-enterostoms and 44 by resection. It was found that primary gastro-enterostomy gave the best late results with cure of improvement in 80 per performed to the contraction of the contraction of the provement in 80 g per cent of the cases—were obtained from resection. The less fa sorable results cure or improvement in only \$4.5 per cent of the cases—were those of simple suture.

the further fate of patients with severe recurrence a determined it will be found that the ultimate results of the suture method are considerably better. A great number of the patients treated by this method recover completely or are greatly benefied by another operation or an ulcer cure, and the rial of the second laparotom) is no greater than an axest of ordinary ulcer without perforation. Of the patients who developed a sever returners sling agasto-enteroom relative (fewer were bendied by fourther treatment. In such cases second open toon was associated with very most greater it is the mortality being no less than 204 per cent. The greater sits, we vendenced also by the left at this tripost of the left of the site of the left of th

serious and the chance of heach is greater.

Pattents with no ulcer symptoms before the perforation stand a considerably greater chance divmaning well even after symptoms. The noise
recurrence increases in proportion to patents with
hosp histon. Of severe ulers myntoms often trous
hosp histon. Of severe ulers myntoms often roman
perfectly well after only auture of the periorsum
perfectly well after only auture of the periorsum
following all operative method recurrence would
develop within the first few weeks or months after
the perforation. The longer the time that has eloped
since the perforation and operation the less the
danger of recurrence and the greater the chance for

danger of recurrence and the greater the chanless of the author concludes that the treatment of choic consists in simple suture preferable after exceed of the ulcer sponging of the shormand crists, and treatment and primary state of the shorman factors, the contract of the shorman factors, and and the shorman factors of the shorman factors of the shorman factors of the shorman factors of the danger of the shorman factors of the short of operation. At any rate it is no greater than the chanof perhaps and the short of the short of the short of perhaps of the short of the of perhaps of the short of the of perhaps of the short of the short of the short of the short of the of perhaps of the short of the short of the short of the short of the of perhaps of the short of the short of the short of the short of the of perhaps of the short of the short of the short of the short of the of perhaps of the short of the of perhaps of the short of the short of the short of the short of the of perhaps of the short of the short of the short of the short of the of the short of the sh

Ifaudek M The Nays in the Diagnosis of Early Carcinoma of the Stomach End M J

Next in frequency to cardiovascular disease sea curse of death is cancer and the most common of fatal cancers is sancer of the stomach. Early a support of the stomach of the stomach of the stomach of the stomach of the support of t

Anschuetz W Palliative Resection of Gastric Cancer (Leber die palliative Resektion des Magen carcinoma) Deutsche Zischr f Chir 1919 cent 1

In the follow up study of 320 patients subjected to gastric resection for cancer in the kiel clinic during the period from 1901 to 1927 the cases were classified into 3 groups. The first group comprised thus of easily resctable cartinoma without ad heatons the second group, those with adhesions in which it was necessary to remove portions of neigh borns organs (colon liver pancess) with the tumor mass and the third group those in which it was definitely stated on the bistory theet that measures, were left behind and the operation was only a cull-

The mortality was highest about 46 per cent in fromp a With regard to Group 3 the author states that the description of the operation as a 'pall abor erection is subject to criticism as a morto scopic examination was not always made of 1 imple nodes and other suspected issues left behind the diagnosis often being based upon macroscopic meth od. The classification was dependent entirely upon

the operator a opinion
In the kile climit the average duration of life has
not been lengthened by gastro enterostomy (fao
cases treated by this operation in the period from
1910 to 1920). Therefore the palliative resection has
standed ground even though in cases belonged to
sorted to with refluctance. While palliative resection
has an operative mentality equal to that of gastro
has an operative mentality equal to that of gastro

enterostomy it considerably prolongs life.

An important result of the examination of the resected spreamens was the finding that the clinical classification of the cases into the g groups is good only for the first year of the disease. The problem is the property of the case of the problem is the problem in the problem in the problem is the problem in the problem in the problem in the problem is the problem in the problem in the problem in the problem in the problem is the problem in the problem

From the statistics collected by the author it appears that the metastases left behind which under go healing are those of lymph nodes omentum mesocolon and peritoneum larench/matous me tastases seem to be uninfluenced by the palhative resection

The end results in Group 3 (palliative resection) approach those in Croup 1. Therefore even in cases of small carcinomata which can be easily reserted the end result may prove disappointing while a pullistive operation may give 4 comparatively good result. On the other hand in the cases in Group 2 can be considered to the case of the case o

With regard to the length of life after operation the author states that the pre operative duration of the disease and the microscopic picture (Kongtens) are of less importance than the sate of the lesson Corpus carcinomata have a more favorable progeno sis than carcinomata of the plorus. This explains the better operative results in cases in Group 2 in which the former predominate Of 57 patients treated for carcinoma of the pylorus 5 lived more than five years whereas of 35 treated for carcinoma at a distance from the pylorus 7 lived more than five years.

In summing up, the author comes to the conclusion that not a few resections of gastine actionism as pullature but they nevertheless result in an average prolongation of life equal to that obtained by apparently radical operations. However, a truly per manent cure is to be obtained only by complete radical zeroacs.

Cutting R A The Relation of the Adrenal Gland to the Toxemia of Intestinal Obstruction An Experimental Study irch Surg 19 9 x18 27

There is general agreement among investigators that the internal contents of animals, with intestinal obstruction contains a form in which is not found in the contents of normal intestinals presents is suit, definite physical and chemical properties and when in jected intra-consuly into normal animals is capable of producing the clinical picture of untestinal obstruction with fullimate death. This torum is soluble in mater and is not destroyed by boiling. It is pre-tipitated by five volumes of alcohol and by about 60 per cent ammonium sulphate. It is not destroyed by eyoposite to pancetate ferment for several days, and it does not pass through a collodion membrane when disabled against distilled water.

The author was led to investigate the relation of the adrenal glands to the toximal of intestinal obstruction by the discovery of characteristic changes in those glands in animals dying of intestinal obstruction. His experiments were carried out on abubits. Half of the toun derived from the intestinal contents and mucosa of an animal with an artificial obstruction was injected into rabbits that the been subjected to bilateral adrenal ectomy and the been subjected to bilateral adrenal ectomy and the other half into control rabbits. Both groups of an mals were then kept under observation until death or until the effect of the toxin had disappeared.

The results were conclusive. Both groups of am mals showed the symptoms of intorucation—weak ness tremoers dilatation of the pupils diarrhora, and much more severe reaction than the variantles amuch more severe reaction than the variantles subjected to ademalectomy. In the latter the manifes precided to ademalectomy where the control animals all survived indefinitely, where the control animals all died within these hours am of animals all died within these hours am of the apparently mild chiracter of their react on. The author concludes that as the adrenals undergo.

degenerative changes in intestinal obstruction the treatment must be instituted early and must be aimed at the removal of the lovic products from the obstructed intestinal loops before the degenerative changes in the cortex of the adrenals have become extensive Axinox F Sya M ID

Sailer J Laws G M and Elman J Fatal Infection of the Intestines with Bactilus Acrogenes Capsulatus 1m J M Sc 1029 clarum 309

The infection in the case reported was character ized by marked prostration hypotension the pas sage of loose stools with a peculiar odor and a

leuces tosis of 23 000 without feet of Mutops recaled an acute ulcerative elecotius. Bacteriolog cal examination of the area of influmnation disclosed large numbers of gram positive bacilla with blunt ends. The authors attribute the fatal outcome to the absorption from the intestines of bacillus which to tour. M. Herrer Hazers MD.

Evans A Developmental Enterogenous Cysts and Diverticula Best J Surg 1929, Xvii 34

The author was led to make a thorough study of enterogenous cysts and diverticula by the discovery of an unusual type of elecercal cyst at operation on a man twenty nine years of age who had experienced cramp like pains in the abdomen over a period of a week.

In I vans opinion all cysts with the structure of gut which are found in the abdomen in the thorax, or at the umbitious are derived from the primitive intestinal tract and are developmental enterogenous cysts. They originate either in the widlo intestinal tract or in the diverticula found intestinal tract or in the diverticula found in the developing entoderm of the embryo as described by kichel I caus and Thing. Some of these developmental diverticula persist as diverticula and increase in size.

Instances are cited of enterogenous cysts which originated in developmental diverticula situated in those segments of the primitive intestinal tracticular which later hecame the crophagus stomach duodenum jejunum ileum ileoczeal regioa vermi ofrm appendux or sigmoid, also instances of en terogenous cysts which originated in some un obliterited portion of the vitello intestinal tract

The great variety shown in the structure of the inner lining of these cysts is in some cases accounted for by intracystic pressure in others by inflammatory changes and in many by an error in the differentiation of the lining cells resulting in heteromorphosis of the epithelium

Evans believes it probable that all epithelial misplacements of the intestinal trat whether occurring in enterogenous cysts in developmental diverticula or as superficial and deep heteromor phoses of the intestinal tract, originated in the diverticula which are found in the developing entoderm of the embryo Grosce & Coulti W D

Hayes R and Shaw, A B Intermittent Duodenal Stenosls Radiology 19 9 xm 245

When the mesentery is short and there is ploss of the small intestine the mesentere root containing the superior mesenteric artery may exert a sufficient drag to cause compression of the duodenum over which it passes. In the presence of right saded prosss the colica media which supplies the right colon may cause similar compression.

In cases of intermittent duodenal stenosis there is usually a history of gastric disturbances of long dura too oftee since childhood Periodical so called billous attacks' with nausea and vomitug resembling typical migraine, are very common and

most significant. The attacks begin with consignation and are frequently accompanied by headiled. They occur three times as frequently in femilies us mailes and are most common between the ago of twenty and forty years. They may occur sho is posture. They are the second of the activities of the obtack of the activities of the obtack of the occurs occurs of the occurs occurs occurs on the occurs occurs occurs on the occurs occ

Inal he is dealing with a gastice occurous
In all of the authors series of forty eight case a
complete examination was made. In the cases of
adults the Graham die test of gall bladder function
was carried out. Aineteen of the patients were oper
ated upon but no pathological condition older hat
produced by membranes or mesenteric pressure.

was found
The cause of the duodenal intorication is not definitely known but it is believed that tone substances
are produced in the dilated stenosed loop of duode

num by proteoly tic bactena The treatment should be undertaken only by one who is familiar with the mechanics of the condition and has thoroughly studied the \ray findings Diet is most important as a grin in weight is essen tial to relief of the symptoms Carbohydrates e ge mulk fat and sugars should be forced Olive oil should be given before meals Bed rest for a pened of several weeks with the foot of the bed elevated about so in and the patient lying on his stomach or right side for an hour after each meal will quite promptly relieve the drag on the jejunum at the ligament of Treitz The use of cathartics is to be avoided When the patient gets out of hed he should wear a properly fitting belt The problem is essen tially a medical one Duodenojejunostomy should be reserved for the more severe cases which are not released by postural and dietetic treatment. The authors experience with carcal plication and fixation or colonexy has not been encouraging

JOHN II NERTH MD

Fahr T Niche Formation in the First Part of the

Duodenum and Its Relation to Duodenai Ulcer (Ucher Asschebildung im Anfang teil des Duo denums und ihre Benehungen zum Ulcus duodeni) Hitt ad Gren geb d Med u Chir 1939 xlt 228

The postston of the duodenal hulb as the transition between the storach and intestine as manifesting the shape of the muscle houself of the sale storacteristics of the wall structure e penalty the shape of the muscle houself of These cause particular of the sale storacteristics on the duodenal sade of the sale storacteristics which at times are small. To determine their te lationships more exactly, fifty stomachs were talled. In half of them, there were nuclea due to

cicatrizing or healed ulcers and in the other half simple niches After exact localization of the af fected part with needles the stomach was resutured filled with barium, \ rayed in a favorable posi tion and then opened again and examined micro

scopically

No noteworthy differences were found between the various types of diverticula Small niches may cast shadows exactly like those of ulcers and quite large ulcers may show flat sacculations such as are found in the large niches of the duodenal bulh

Fahr attributes niche formation to a relationship between the morphological characteristics of the bulbus duodent and functional influences arising in the muscularis mucosa. The theory that the con dition develops gradually in the sense of pulsion di verticula is supported also by the fact that it is most

common after the fiftieth year of age

The differential diagnosis between acquired and congenital diverticula is facilitated by the fact that the latter occur more frequently low down in the duodenum near the papilla of Vater concentral diverticula always have steeply inclined sides in contrast to the acquired type which have overhanging borders. In those of the acquired type, microscopic examination shows a rich development of the musculature in the borders

Spastic conditions of the muscularis propria do not necessarily lead to ulcer formation. In spasm of the muscularis mucosae conditions are considerably more favorable for ulcer formation because of the squeezing of the blood vessels

Bule L A and Swan T S Benign Tumors of the Golon Surg Clin A Am 1929 IX 893

The authors review sa cases of benign colonic growths seen at the Mayo Clinic in the period from 1905 to 1926 The incidence and location of the tumors are first considered. The authors believe that such neoplasms will be discovered more frequently as methods of diagnosis are improved. Of 19 103 patients subjected to proctoscopic examina tion in the period from 1924 to August 15 1928 polyps were found in 455 (2 38 per cent) authors exclude rectal growths from their discussion They point out however that benign tumors affect the rectum more frequently than the entire remain ing portion of the intestinal tract

The tumors reviewed are grouped pathologically

as follows 1 Adenomata Nineteen of the 51 tumors were simple adenomata the pathological structure of most polyps This group would have been much larger if present day diagnostic measures had been used in the years from 1905 to 1922 Many adenomata re main symptomless until they attain sufficient size to cause interference with the mechanical function of the bowel when they may cause invagination or intussusception with consequent obstruction or until their presence is complicated by ulceration necrosis or strangulation. The authors regard these growths as potentially malignant and therefore advocate

their early eradication. They point out their fre quent association with other lesions When the tumors are situated high in the rectum or sigmoid they make a special search for carcinoma and diverticulitis

2 Adenofibromata There were 2 adenofibromata in the cases reviewed. These are essentially aden omata with a large fibrous stroma.

3 Fibromata One fibroma was observed The authors discuss also 4 others, the only ones re ported in the literature up to March. 1027

4 Lapomata Eight of the tumors in the cases re siewed were true boomata. Of the 2 which were found at autopsy one is described as lipomatosis of the entire colon and rectum and the other as lipo matosis of the mesentery of the sigmoid. In 5 cases the tumor had its origin in the submucous coat. In all of the latter there was a history of abdominal pain, in 4 a history of bleeding, and in 3, a palpable mass in the abdomen

s Adenomyomata Five adenomyomata were found All were in the sigmoid. In no case was the tumor secondary to a similar process in the uterus 6 Hamangiomata Two tumors of this type are

described one a simple hamangioma, and the other a hamangioma of the cavernous type

7 Polyposis Excluding the type of polyposis as sociated with chronic ulcerative colitis and malie nancy 13 cases of polyposis were found. The cardi nal symptoms-abdominal pain bleeding and diarrhoca-are discussed The authors agree with the majority of observers that the disease appears most frequently in the lower bowel segments. They sug gest that the cause is some form of persistent irri tation setting up a focus hyperplasia of tissue with bealing on either side and giving rise to a slow metamorphosis from the stage of increased promi nence of the folds of the mucous membrane to that of true polypoid formation

8 C) stic tumors There were 2 cystic tumors in the cases reviewed. The first the authors believe was a serous mesenteric cyst of the ascending colon and small intestine and the second a congenital ileocæcal or mucous cyst

Warren R The Complications and Mortality of Appendicitis Lancet 1929 ccxvii 16

The author reviews American and English literature on appendicitis and tabulates his findings

in r o72 cases of the condition

The chief factors affecting the mortality are the period at which the condition developed the patient's age and the complications author is convinced that the period immediately following the war was attended by a definite increase in the mortality He accounts for this by assuming that resistance was materially lowered by influenza and poor nutrition The mortality is greatest in infancy and old age It is appreciably increased by associated conditions such as myocardial de generation pulmonary embolism and other serious conditions The most important direct complica

tions increasing the mortality are peritoritis in testinal obstruction and a combination of the two In the author's 1 072 cases there were 107 with direct complications and of the latter 44 were fatal Intestinal obstruction may be primary but is usually secondary or postoperative

As treatment the author favors operation in all cases in all stages LARL GARSTON M D

Pope C E and Judd E S The Arterial Blood Supply of the Sigmoid Rectostemold and Rectum Surg Clin A 1m 1929 ix 057

The region of the rectosigmoid extends from the so-called critical point half way down the rectum It is a region peculiar in the type of arteries to the wall of the bowel There are from one to five of these They may originate from the superior hamorrhoidal artery above at or below its point of division at the third speral segment. They parallel the superior hamorrholdal artery and on entering the wall of the bowel have laterally spreading branches

The so called entical point is always the point of origin of a rectougmoid artery, the first recto

sigmoid artery

The upper half of the rectum is always supplied by the rectosigmoid arteries for the main part of its right and left lateral and anterior aspects and part of its posterior aspect

The region of the rectosigmoid may be determined from its arteries. At the time of operation it may be recognized from the constancy in length of the inferior mesenteric superior hamorrhoidal artery which bifurcates or trifurcates at approximately its

median zone

The lower part of the bowel has a much more adequate blood supply than has been realized. In the intact bowel there is a dependency of circulation that may occur from below up as well as from above down there being a considerable intlmacy of anasto mosis between the systemic and splanehnie systems of vessels. It was found that instead of a single middle hamorrholdal artery on either side there are always three and sometimes five on either side These originate from the anterior branch of the hypogastric artery and the internal pudic artery in its downward course and supply the lower part of the rectum There may be also from two to four in ferior hamorrhoidal arteries from the internal pudic artery on either side. It was found also that in the lower half of the rectum a fine system of retrorectal vessels connect the middle sacral and lateral sacral arteries with the gluteal arteries and the hamorrhoid al arteries Some of the gluteal branches assume a size sufficient to warrant the application to them of the term middle hamorrhoidal arteries' and act like such arteries

The more important surgical indications gained from this study seem at the present time to be (1) wide resection of the lower part of the colon and rectum to include the region of the rectosigmoid, (2) definition of the rectosigmoid and its identification

by knowledge of its arterial blood supply (a) preservation of as much as possible of the pelvic mesucolon pattern and (4) high ligation of the inferior mesentene artery The finding demonstrates the safety of leaving a low lying rectal stump for any stomosts or other purpose because of the depend ency of circulation from below upward and they show that the size of the mesocolon is not unit cative of the arterial pattern

Douglas J Endometriosis of the Sigmoid-Intestinal Obstruction Ass Surg 1929 to 309

Douglas reports a case of tumor of the sigmoid with symptoms of obstruction No blood wis found in the stools A first stage Vikulicz operation was done with resection of the growth and 12 in of the intestine The tumor was situated on the mesen teric side of the sigmoid. There was no ulceration of the mucosa Six days after the removal of the neoplasm a clamp was applied to the spur The colostomy was closed three weeks later Microscopic examination showed the tumor to be made up of endometrial tissue. The findings suggest that it had its ongin in an embryonic rest

T Y ROWLET M.D.

Lockhart htummery J P Harris H A Neunton Morgan C I and Others Discussion on Fistula in Ano Proc Roy Soc Med , Lond 1020 XXII 1111

LOCKHART MUMMERY stated that operations for fistula in ano were mentioned in the very enriest records of surgical literature and that among the instruments unearthed at Pompen there were several

for the performance of such operations

The records of St Mark s Hospital London show a steady decrease in the number of cases of anal fistula since 1909 The primary cause of the con dition is an abscess in the tissues surrounding the rectum which bursts into the rectum externally, or in both directions Such an abscess may be due to a congenital cyst, a foreign body a fissure an ulcer

suppuration of the glands or tuberculosis The treatment of anal fistula is surgical While the condition is generally regarded as difficult to cure the principles of treatment are now well established The purpose of operation is the establishment of free drainage to all parts of the tract Adequate drainage is essential during the entire period of healing. In cases of large fistulæ and deep tracts it is not always possible to establish free drainage to all parts of the tract without risk of causing incontinence. It is better to perform a second operation to re establish drainage than to produce incontinence. All of the tracts should be incised and laid freely open In cases of multiple fistulæ complicated by many side tracts which are difficult to reach it is best to operate in two stages dividing and draining all of the side tracts first and then dividing the main tract or reversing this procedure If the operation is planned along these lines there will be little danger of causing incontinence

The belief that the man tract always less deep to the external sphinter and that its divasion will in volve cutting of the muscles is erroneous. In only about one that of the cases is this true. The external sphinter should never be completely cut across at the purman; operation. The advantage of position by the mental of the theory of the complete of the position of the property of the property of the complete of the position of the property of the complete of the position of the complete of the position of the complete of the position of the complete of the complete

along conservative lines. It is useless to expect healing in the presence of active tuberculous. The case should be treated as one of tuberculous not one of fistula. Local treatment should be entirely sub-ordinate to general treatment. When the patient has acquired good general resistance the fistule can be treated in the usual way. Complete excasion of all diseased tissues should be done whenever its possible in order to avoid the risk of relighting the infection frobably more reputations have been damaged by the unsuccessful treatment of cases of fittula they consistent of the rectum or gastro enteres the consistency of the consis

Harsis described some of the processes involved in the normal disc deported of the embry of lies greated that the parent tube such as the asophaspia greated that the parent tube such as the asophaspia diodenum or nectum is endowed with two posentialities the one a result of the compensatory epithelial proliferation leading to occlusion and sequent intra epithelial vist formation and the other the result of a comparative powerty in the development of the music laiver leading to subsequent diverticulous. In the case of the rectum the train violenced processes throw considerable hight on the greatest of certain case, of fistula in ano in the greatest of certain case, of fistula in ano

VALUTON MORE AN reviewed too cases of an fection around the rectum and anus which were treated at St Mark's Hospital He stated that 46 per cent of fistulæ pass radially into the bowel fistula is most common after the thirtieth year of About 56 per cent of ischiorectal abscesses communicate with the bowel and are or will become complete fistulæ If the original abscesses are treated thoroughly only 14 2 per cent recur as fistulæ hifts-one per cent of fistulous tracts are superficial to the external sphincter and about 33 per cent pass deep to the external sphincter Fifteen per cent pass through the external sphincter A tuberculous fistula will heal rapidly and well if the patient's general condition is good and there are no signs of active pulmonary disease. I rimary suture was done in only 3 of the cases reviewed and in 2 it broke down Foreign bodies were present in about 4 per cent of the cases In 8 per cent there were hamorrhoids A fissure was present in 7 per cent and inflammation of a crypt in to per cent Jone II Acrem M D

LIVER, GALL BLADDER PANCREAS, AND SPLEEN

Michelsohn II A Report on 712 Gall Stone Operations with Special Reference to the End Results (Bencht ueber 712 Gallensteinoperationen gut besonderer Betuecksichtigung der Dauer resultati Deutsche Zische (Ent. 1920 extu 150

In the clinic at Kiel, in the period from 1913 to 1925, 721 patients were operated upon for disease of the Indian, passages and its sequide (evclusive of these operated upon for recurrence and for malignant tumors of the bid ducts). The operations were as follows: 472 cholecy steedomes with a mortality of 3,3 per cent. 58 cholecy steedomes with dramage of the common and hepatic ducts by means of a T drain after the method of Lehir with a mortality of 17 per cent. 2 of choicy-stoetomes with a unortality of 17 per cent. 3 choicy-stoetomes with a ductality of 20 per cent. 3 lancings of an abscess, with 1 death, and to the patients came to operation after the fortieth year of are 8 by fair the period of a death. More than half of the patients came to operation after the fortieth year of are 8 by fair the perater number were females.

Immediate operation was not performed routinely in cases of gall stone attacks. If possible surgical inter-ention was delayed until the acute symptoms and subsided under conservative therapy (hed rest, the application of an iee hag regulation of the diet, and treatment with atropin and magnesium sul plate! On the other hand when signs of pertional unitation appeared and the patients condition he came worse with an increase in the interus, operation was done as soon as nostible.

Absolute indications for operation are presented by signs of severe inflammation of the gall bladder with involvement of the peritoneum by important his hydrops and by chronic recurrent cholelulhasse. In cases of acute occlusion of the common duct with out fever operation should be performed after two or three weeks if by that time the jaundice has not recoded (operative mortality in early cases 66 per cent in late cases, 56 per cent). In cases with symptoms of cholangetus operation should be done as soon as possible (operative mortality in early cases, 237 per cent in advanced cases, 50 per cases, 50 per cent in advanced cases, 50 per cases, 50 per cent in advanced cases,

Of the 712 patients operated upon at the Kaelinic 71 tep ecent died unmediately following the operation—7 after an interval operation and after an operation performed during an acute attack. The 44 cases in which death followed an operation performed during an acute attack are reviewed in detail. The 7 deaths tresiting from an interval operation were due to operative mishaps.

In 5 of the 76 cases in which an operation was per formed for recurrence the first operation was a chole cystostom. In 3 of these 5 the second operation was necessitated by a persistent bilary fivilida, in 1, stones were removed from the gall bladder and be patic duct, and in 1 the second operation was a chole cystectomy. Of the remaining cases of re-operation, the secondary intervention was necessitated in 3 by a stone in the common bile duct which had not be removed in the previous operation, in 1 by an tions increasing the mortality are peritoritis in testinal obstruction and a combination of the two In the authors 1 072 cases there were 107 with direct complications, and of the latter 44 were fatal Intestinal obstruction may be primary but is usually secondary or postoperative

As treatment, the author favors operation in all cases in all stages East Gassing M.D.

Pope C E and Judd E S The Arterial Blood Supply of the Sigmoid Rectosigmoid and Rectum Surg Clin V tm 1929 12 057

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The upper half of the tectum is always supplied by the rectosigmoid afteries for the main part of its right and left lateral and anterior aspects and part of its posterior aspect

The region of the rectosigmoid may be determined from its arteries. At the time of operation it may be recognized from the constancy in length of the inferior mesenteric superior hamorrhoidal artery which bifurcates or trifurcates at approximately its median zone.

The lower part of the bowel has a much more adequate blood supply than has been realized. In the intact bowel there is a dependency of circulation that may occur from below up as well as from above down there being a considerable intimacy of anasto mosis between the systemic and splanching systems of vessels. It was found that instead of a single middle hamorrhoidal artery on either side there are always three and sometimes five on either side These originate from the anterior branch of the hypogastric artery and the internal pudic artery in its downward course and supply the lower part of the rectum There may be also from two to four in ferior hamorrhoidal arteries from the internal pudic artery on either side It was found also that in the lower half of the rectum a fine system of retrorectal vessels connect the middle sagral and lateral sacral arteries with the gluteal arteries and the hamorrhoid al arteries Some of the gluteal branches assume a size sufficient to warrant the application to them of the term middle hamorrhoidal arteries and act like such attenes

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by knowledge of its arterial blood supply (a) perervation of as much as possible of the price mescolon pattern and (a) high ligation of the infermenenteric artery. The finding demonstrates the safety of leaving a fon lying rectal stump for an atomics or of other purpose because of the deged atomics or other purpose because of the deged to the control of the property of the control of the show that that no from below upward and the show that the control of the control of the cattwe of the arterial pattern.

Douglas, J Endometriosis of the Signoidintestinal Obstruction Ann Surf 1929 x 300.

Donglas reports a case of timeo of the signoid value of the signoid value of the signoid value of the stocks. A first stage Value of the case of the signoid value of the signoid value of the signoid value of the signoid value of the signoid of the case of the signoid of the value of the mucots. Six days after the removal of the nucots. Six days after the removal of the nucots of the signoid value of the six of the

II N ROWLEN M D

Lockhari Nummery J P Harris II A Naunton Morgan C I and Othera Discussion on Fistula in Ano Proc Roy Soc Med Lond 1940 Van 1331

LOCKHART MUMMERY stated that operations for fistula in ano were mentioned in the very sathert records of surgical literature and that among the instruments unearthed at Pompeu there were see of for the performance of such operations

The records of St. Maria is injusted, and the records of St. Maria is injusted. The records of St. Maria is injusted to the standard decrease. The primary cause of the one disting as an aborea, in the issues surrousday the rectum which bursts into the rectum externally or a most both directions. Such on aboreas may be due to congential cyst, a foreign body a first, ire an uter supportation of the glands or tuberculous.

The treatment of anal fistula is surgical. While the condition to generally regarded a difficult to ture the principles of treatment are now well established The purpose of operation is the establishment of free drainage to all parts of the tract Adequate dramage is essential during the entire period of healing In cases of large fistule and deep tracts it is not always possible to establish free drainage to all parts of the tract without risk of causing incontinence. It is better to perform a second operat on to re estable h drainage than to produce incontinence. All of the tracts should be incised and laid freely open In cases of multiple fistulæ complicated by many side tracts which are difficult to reach it is best to operate in two stages dividing and drawing all of the side tracts first and then dividing the main tract or reversing this procedure If the operation is planned along these lines there will be fittle danger of causing incontinence

The belief that the main tract always lies deep to the external sphincter and that its division will in volve cutting of the muscles is erroneous In only about one third of the cases is this true. The ex ternal sphincter should never be completely cut across at the primary operation. The advantage of postponing the division of the muscle for two weeks is that by the end of that time the muscle will be firmly held in the surrounding fibrous tissue and the ends will not retract when the muscle is divided As the external sphincter is attached both lichind and in front division of the muscle at these sites is not as dangerous as lateral day isson. The internal sphine ter is of no importance in the continence of the anal opening

In cases of tuberculous fistulæ treatment must be along conservative lines It is useless to expect heal ing in the presence of active tuberculosis The case should be treated as one of tuberculosis not one of fistula Local treatment should be entirely sub ordinate to general treatment When the patient has acquired good general resistance the fistula can be treated in the usual way Complete excision of all diseased tissues should be done whenever it is possible in order to avoid the risk of relighting the infection I robably more reputations have been damaged by the unsuccessful treatment of cases of fistula than by excision of the rectum or gastro enteros

HARRIS described some of the processes involved in the normal development of the embryo lle sug gested that the parent tube such as the ocsophagus duodenum or rectum is endowed with two poten tialities the one a result of the compensators epithelial proliferation leading to occlusion and subsequent intra epithelial cyst formation and the other the result of a comparative poverty in the development of the muscle layer leading to subse quent diverticulosis. In the case of the rectum, the embryological processes throw considerable light

on the genesis of certain cases of fistula in ano NAUNTON MORGAN reviewed 100 cases of in fection around the rectum and anus which were treated at St Mark's Hospital He stated that 46 per cent of fistulæ pass radially into the bowet Fistula is most common after the thirtieth year of About 56 per cent of ischiorectal abscesses communicate with the bowel and are or will become complete fistule It the original abscesses are treated thoroughly only 142 per cent recur as fistulæ Fifty one per cent of astulous tracts are superficial to the external sphincter and about 33 per cent pass deep to the external sphincter litteen per cent pass through the external sphincter A tuberculous fistula will heal rapidly and well it the patient's general condition is good and there are no signs of active pulmonary disease. I rimary suture was done in only 3 of the cases reviewed and in 2 it broke down Foreign bodies were present in about 4 per cent of the cases In 8 per cent there were harmorrhoids A fissure was present in 7 per cent and inflammation of a crypt in 10 per cent TORN W NAZER M D

LIVER, GALL BLADDER, PANCREAS. AND SPIECH

Michelsohn H A Report on 712 Gatt Stone Operations with Special Reference to the End Results (Bericht ueber 712 Gallensteinoperationen mit besonderer Beruecksichtigung der Dauer resultate) Deulsche Zischr f Chir , 1920 CCVIV. 100

In the close at kiel, in the period from 1913 to 1925 712 patients were operated upon for disease of the biliary passages and its sequelæ (exclusive of those operated moon for recurrence and for mahenant tumors of the bile ducts) The operations were as follows 422 cholecy stectomies, with a mortality of 1 t per cent 258 cholecy stectomies with drainage of the common and hepatic ducts by means of a T drain after the method of Kehr with a mortality of 11 per cent 20 cholecystostomies with a mortality of 10 per cent 3 lancings of an abscess, with 1 death, and the patients came to operation after the fortieth year of age By far the greater number were females

Immediate operation was not performed routinely in cases of gall stone attacks If possible, surgical intervention was delayed uptil the acute symptoms had subsided under conservative therapy (bed rest the application of an ice bag regulation of the diet and treatment with atropin and magnesium sul nhate) On the other hand when signs of peritoneal stritation appeared and the patient's condition be came worse with an increase in the icterus, operation was done as soon as possible

Absolute indications for operation are presented by signs of severe inflammation of the gall bladder with involvement of the peritoneum, by empyema by hydrons and by chronic recurrent cholelithiasis In cases of acute occlusion of the common duct with out fever operation should be performed after two or three weeks if by that time the jaundice has not receded (operative mortality in early cases 6.6 per cent in late cases 36 per cent) In cases with symp toms of cholangestis, operation should be done as soon as possible (operative mortality in early cases, 23 7 per cent in advanced cases 50 per cent)

Of the 712 patients operated upon at the Kiel chinic 71 per cent died immediately following the operation -7 after an interval operation and 44 after an operation performed during an acute attack The 44 cases in which death followed an operation performed during an acute attack are reviewed in detail The 7 deaths resulting from an interval oper ation were due to operative mishans

In s of the 16 cases in which an operation was per

formed for recurrence the first operation was a cholecystostomy In 3 of these 5 the second operation was necessitated by a persistent biliary fi.tula in i stones were removed from the gall bladder and he patic duct and in z, the second operation v as a chole cystectomy Of the remaining cases of re operation. the secondary intervention was necessitated in 3 by a stone in the common bile duct which had not been removed in the previous operation, in 1, by an encrusted linen suture in the common duct, in s, by adhesions, in r by hiver abscess and in 4 by stricture of the common duct. In x case nothing abnormal was found at re-operation (spasm?)

Of the 712 patients, 513 per cent were followed up Staty anne and aux tenths per cent were entirely free from 51 mptoms and 24 5 per cent complained only of transitory pain in the epigastrium or mild drawing puiss in the operative ser. Accordingly 942 per cent are to be considered able bodied. In 58 per cent the results were unsatisfactors.

No relationship could be determined between the not result and the pratient a sign at the time of the operation or the duration of the disease. However time the cust ence studied from the austomic pathological standpoint it was found that in cases of most of the common duct poor results were nearly twee as numerous in in cases without involvement of the common duct to results were nearly there as numerous in incases without involvement of the common duct to the az cases of poor treatils the treathoud as juntons were ascribed in § to thronic pancreatitis in § to adhesions and in it to cholange this. In 6 cases (operation and convalescence uneventful) collect pain recould not be determined.

The author discusses the etiology, prophylaus and treatment of recurrences. He states that recur rence of 33 mptoms may be caused by true recurrence of stones but no unquestionable case in which this occurred has been observed. On the other hand, in cases the recurrence of symptoms was found to be due to stones left behind at operation. Stones are especially apt to be missed when the bile passages are filled with fine gravel or sand. To facilitate the escape of missed stones from the deep bile passages Holmeister has recommended probing through the papilla of Vater with metal bougies Besides this dilatation of the papilla of Vater use is made of the T drain This drain is clamped off from four to eight days after the operation and removed twenty four hours later

Adhesions may also cause symptoms suggesting recurrence Chalagrashs may produce symptoms which can scarcely be differentiated from those of gall stone attacks. In such cases good results may be obtained from the introduction of from a not so come of mynesum subplate into the doubenm through the duodenal tube. Scars and strictures of the common duct may lead to recurrence and chronic pain creatits may run its course with the preture of gall stone attacks. There are also cases in which recurrence of the pain must be ascribed to spastic phenomen an in the bilary system. For these atropin and magnesium sulphate are recommended. Such cases, should not be treated surgically.

Chamberlain D Cholecystectomy Surg Ginec & Obst., 1929 2th x 181
Rowlands R P Choledochotomy Surg., Ginec & Obst. 1929 2th x 186

Chamberlain states that in cholchthrasis medical treatment can do no more than keep the patient comfortable. An infected gall bladder left in mark a menace to the general basells and may preme to fast complications. Chamberlain believes that or tunoma of the gall bladder never cours in the a sence of irritation due to gall stones. He attitudes a large part of the mortality of cholesy stedown to prolonged medical treatment during which have drawing results from the continuous absorption of toming or back persone from a stone mysterial in the course of the

Both Chamberlain and Rowlands emphasize the emportance in biliary surgery of the recognition of variations and anomalies of the duct and attend systems. They prepare the patient for operation by a few days of hospital rest, blood tests, the removal of foci of infection and the free administration of water and glucose At operation both authors ele vate the costal margin for better exposure of the liver and use the right paramedian incision Cham berlain regards it as rarely necessary to open the common duct for exploration, but Rowlands advises encision and probing in most cases. It is agreed that the abdomen should be thoroughly explored and the appendix routinely removed If stones are palpated within the common duct it is best to milk them into a readily accessible area before an incision is made The hepatic ducts and the ampulla of later should be probed Rowlands advises dilatation of the latter for better drainage Both authors recommend that gauze be passed into the duct to wipe out any small fragments of calcula Drainage should be established by two tubes one leading from the hepatic ducts and the other from the lower end of the common duct These tubes should be sutured to the edge of the duet wound and also to the skin of the abdominal wall and left in place for fourteen days or longer Morrison s pouch should also be drained preferably through a stab wound Supraduodenal choledochot omy is preferable to retroduodenal or transduodenal choledochotomy

Conconcorony In removing the gall bladder, Chamberlain use blunt dissection of the ducts. He ties the cystic duct a mm from its juncture with the hepatic or common duct and brangs the ends of the ligatures out through the abdominal wall. He carbolates the stump of the cystic duct and ligates the cystic duct separately.

With regard to the after freatment both authors aduse a moderate Fowler position and the administration of glucose by rectum. Chamberlain sometimes administer glucose through the ribe thatlends through the common duct into the drodenum Kowlands: cases water is given freely from the beginning and the diet is repuly furereased so that a full deet is generally given in small mesh so that a full deet is generally given in small mesh.

Runlands calls attention to the fact that unless care is taken in placing the drainage tubes, extravasation of bile may occur into the greater or leser peritorial cavity. Recurrence of cohe may be due to spasm of the duct around the tube or the presence of a blood clot stone or debris in the lumen of the duct Remittent or intermittent fever is usually due to cholongeitis. Anorexia, sleepiness, or even coma may develop because of chokemia. The mortality varies from 2 to 6 per cent and depends upon the extent, severity and duration of the infection

STANLEY II MENTZER MID

McClure R D The Postoperative Complications of Cholecystectomy Ann Sure 1929 rc 253

The author believes that the incidence of pieu monia as a postoperative complication can be further reduced by sufficient dental prophylaxis immediately before the operation and by sending the patients to the hospital a day or two before operation to preclude the development of acute

respiratory infection

The number of deaths from myocardial disease can be further reduced by closer cooperation with the elinician. In the case of a patient with myo earditis or other heart lesion operation should be delayed until the climician states that the patient has been brought to the ontimal condition for it

The incidence of thrombosis and embolism is more difficult to reduce as the cause of these cunditions is not clear Postoperative exercises as recommended by Pool and thyroid medication as recommended by Walters may be of value. The injection of an anticoagulant at the time of operation may be the

best solution of the problem

The author reports four deaths which occurred when a second incision was made for removal of the gall bladder when the primary intervention was done in the lower part of the abdomen. He states that the practice of performing a second operation under the same anasthesia increases the mortality HOWARD & MCKNIGHT M D

Beaver M G Variations in the Extrahenatic Biliary Tract freh Surg 1020 Six 3 1

The normal angular mode of suncture of the exists. duct with the hepatic duct as described in text books of anatomy was found in only \$8 per cent

of the cases studied by the author The long and short parallel types of cystic duct occur in more than a third of the cases and as is shown by the literature is perhaps the most common cause of accidents in biliary surgery. In such cases there is a marked increase in the length of the cystic duct with a corresponding decrease in that of the common bile duct. The cystic duct and the hepatic duct are so intimately bound together by fibrous tissue that they are absolutely inseparable and appear as a single duct. Any rough manipulation may tear the thin septum between them 1 he large portion of a cystic duct of this type which remains following cholecystectomy may dilate and form a new gall bladder probably with recurrence of symp toms The cystic duct does not contain valves of Heister in the portion which lies parallel with the hepatic duct. The short parallel type occurred in 26 3 per cent of the cases studied by the author and the long parallel type in 7 per cent

The anterior and posterior spiral varieties were found in 12 per cent The length in the anterior spiral variety conforms closely to the normal In the posterior spiral variety the cystic duct is mark edly lengthened and the hepatic and common ducts remain about normal It has been stated that strong traction on the eall bladder is much more likely to tear off a soural custic duct than a duct with a normal arrangement

Accessory hepatic ducts occurred in five (8 7 per cent) of the cases studied Four of these were accessors right henatic ducts three of which were also accessory to the cystic duct. In one case there was an necessory left hepatic duct. In length and diameter the accessory ducts corresponded closely to the normal cystic duct

De Takats C and Wilder R M Isolation of the Tail of the Pancreas in a Diabetic Child J Am If 1ss 10 0 ven 606

Experimental work on dogs has shown that after separation of the tail from the hods of the pancreas the islet tissue in the tail persists by pertrophies and functions and the tolerance for sugar is increased Increased sugar tolerance has been noted also after hgation of the body of the pancreas and hyper trophy of the islets has been found after obliteration of the duct. In man hypertrophy of the islets has been found at autopsy in a case in which the pan creatic duct was compressed by a careinoma and hypennsulism has been demonstrated in a patient

with carcinoma arising from the islet tissue These observations suggested to the authors that hypertrophy of the islets and increased function might be brought about in a patient with diabetes by obliterating the pancreatic ducts. The treatment in the case reported was based on that theory

The patient was a boy thirteen years of age who had severe diabetes for more than seven years. His sugar tolerance had shown no signs of spontaneous improvement and in spite of a rigid diet and the administration of 40 units or more of insulin daily the disease had remained stationary

At operation the pancreas was found to be of nor mal consistency but the tail seemed very short. The pancreas was divided with the electrocautery as close to the midline as possible. The isolated tail was only about 3 cm long. The circulation of the tail seemed well preserved. The severed portion was wrapped in omentum and the abdomen closed with out drainage

The patient stood the operation well but it was difficult to adjust his insulin requirement as small doses produced hypogly camia On the eighth post operative day he began to complain of intermittent cohe One of the attacks caused him to roll about in extreme agony and was associated with definite rectus rigidity and vomiting. At this time the leu cocytes numbered 20 000 When the previous in Coston was re opened a hard mass the size of an orange was found behind the stomach When this was opened about 30 c cm of a greenish yellow

fluid was evacuated There was no fat necrosis A cigarette drain and three gauze strips were placed behind the stomach and led out through the ah dominal wall. The fluid proved to be panciertic juice It was inactive, but could be activated with succus enterious. The patient remained fairly well for four weeks after this operation but then devel oned a vague mass at the fest costal margin. The mass was freely movable and was not tender. At a second exploration made through the old musion the mass was found to be the transverse colon above the splenic flexure and an abscess was discovered in this locality. The abscess had evidently drawn up and angulated the splenic flexure. The tail of the pancreas seemed to be intact. The abscess was drained Two weeks later the patient returned to

his home.

Four months after the operation an increase in the sugar tolerance was apparent. The authors be lieve that the results are encouraging and might have been even more assisfactory if more of the

gland could have been isolated
STANLEY H MEATER M D

Nej II Disturbances of Carbohi drate Metabolism and Diabetes Mellitus After Diseases of the Lancreat (Utber das Auftrein von Sioerungen im Koleh) diatabbau uni von Diabete melitus nach Littankungen der Lankreas) Arch Elin Chur 1923 2lis 178

The author considers the fate of patients who has survived an acute particular decise particularly with regard to the development of diabetes mellitus He reviews cases reported in the hierature in which diabetes occurred years after the pancreatic disease others in which it diveloped soon after the pan creatic condition and a third group in which the simploins of this acute panteratic disease were masked by diabetic coma and were recognized only diet the coma had been overcome by insulin treat

stematic intestigation of the occurrence of diabets after acute pancerette dueste were first diabets after acute pancerette dueste were first the first year fitter operation all of the seventer cases studied showed a disturbance of carbohydrate fixation which was followed by a gridual return of the blood sugar curve to normal. In no case was permanent injury of the insular apparatus to be found but in Stebening sopinion late injury may be suff centrally from selectors of the organ.

The authof was able to re examine thatteen patients who were operated upon for pancreatic disease at the Urban Hospital. In the cases of eight the operation had been done more than five years previously. Bernbards method and the iderance to with dectrois with extreos with careful to the control of the con

the operation and the development of the dabets varied from three months to twenty two years. In the three mild cases operation had been done more than six months previously and apparently resulted in insufficiency of the gland.

Ney a observations lead to the condusors that the development of dubetes depends upon (i) the extent of the process in the pancress (c) the leaf nation of the disturbing for a soil (j) the destination of the disturbing for a soil (j) the destination and injury of the annous portion of the panera from which the regimeration of the inflance with the regimeration of the inflance development of late dubbetes on by there is suit as untertal between the acute paneratic conduston at the dubbetes. Apparently two processes are on cerned the acute inflammation of the organ affecting a considerable part of the gland and increasing as of the gland leading to attrophy and selections of the

Walker I J Carcinoma of the liead of the Pan creas V Entland J Ved 1020 ccl, 202

The author presents a study of 15 cases of circinoma of the pancreas. The diagnosis was made chinically, and checked by laparotom. Because of the danger of hemorrhage or pacreatic fitula hopsy was not done. In 3 cases metastatic nodes were removed.

In a cases to which a preliminary diagnate of carantoma was made the condition was found to be respectively chronic pancreatith due to a store in the common due the montenations curboss of the liver and carentoma of the gall bladder Carantoma of the pancrea was found in 17 and anothers. Verializate usual found in 18 not another to the pancrea was gall stones or pancreastic calcula discovered but the association of curbon pancreatitis with carentoma suggests a possible teleogical relationship between these conditions.

The average age of the patients was fifty eight vents \ine of the patients were males Most of them were obese Jaundice was present in all the icterus index varying from 18 to 60 All of the pa tients complained of digestive disturbances with belching epigastric fullness and occasionally inter mattent comiting Ten complained of pain As a rule the pain was described as a dull intermittent ache This discomfort was probably due to the pressure of the tumor mass on the corbac plexus The average loss of weight was 1816 In 13 cases the stools were clay colored The van den Berg test was hiphasic in every instance. There was no ascites and no enlargement of the liver In 7 cases a tumor mass was palpable. The coagulation time was fifteen minutes An intravenous injection of calcium chlor ide was given once daily for 3 days

In all 15 cases cholecystogastrostomy by the sature method was done and the liver area as derained through a stab wound. In 2 cases post operative bleeding occurred in one undoubtedly from the stoma and in the other from the abdomnal all. There were no deaths in the hospital. After

the operation 10 patients gained from 5 to 16 lb in two and one half months. Pruritus and jaundice disappeared in every instance

Nine patients died The average duration of life from the onset of the disease was one year and two months

STANLEY H MENTZER M D

Thursfield H Watton A J Hurst A F Weber F P and Others Discussion on the Indication for and the Results of Sptenetomy Proc Roy Soc Med Lond 1929 xxu 1493

THURSTIELD reviewed what is known concerning the physiology of the spleen The spleen is a blood reservoir contracting and dilating with the demands of the abdominal viscera and is enlarged in nearly all acute infections. It is usually not the only splenic tissue in the abdominal cavity there being in addi tion, splenicula elsewhere or splenic tissue in the omentum Removal of the spleen experimentally or for trauma or exstic disease results in no permanent change except a decrease in the fragility of the red blood corpuscies. There are three chincal conditions in which splenectomy is routine practice. These are splenic anamia acholuric jaundice and the chronic type of recurrent purpura While many other conditions have been treated by splenectomy the results in these have not been uniform or successful enough to warrant the operation as a routine procedure

Walton presented a classification of the injuries and lesions of the spleen Rupture of the spleen either traumatic or spontaneous is an indication for immediate splenectomy as is also torsion of the spleen on its pedicle Local lesions of the spleen such as costs and tumors when sufficient to cause symptoms are best treated by removal of the organ The cysts are of two types the true and the false The true variety include angiectatic neoplastic dermoid and parasitic cysts. The false variety are the traumatic inflammatory and degenerative cysts Tumors of the spleen may arise from any of the component tissues of the organ. They include fibromata fibrosarcomata lymphomata lympho sarcomata angiomata and endotheliomata Acute inflammatory lesions of the spleen contra indicate splenectomy In protozoal and tuberculous infections in which the splenic focus is the main midus of the disease removal of the spleen may he beneficial In Hodgkins disease involving the spleen the condition is not sufficiently tocalized to that organ to warrant splenectorny and experience has shown that the operation is of little value. In splease anæmia and early Banti's disease splenectomy has been beneficial On account of the improvement in the latter condition it was thought that other conditions with cirrhosis of the liver might be favorably influenced by the operation but this has not been

General blood diseases are the most interesting grently in which splenectomy has been tried. In applastic anzima the formation of blood corpuscles is apparently defective and destruction of imperfect forms occurs in the splen. It was thought that early

removal of the organ before the bone marrow be came completely aplastic would be of value but in all of the three cases cited death occurred soon after the operation Permicious anamia should be treated by dietary measures removal of the spleen is no longer practiced in this disease. In acholuric and hamolytic jaundice, improvement is noted after removal of the spleen and the increased fragility of the red cells disappears. Purpura hamorrhagica is characterized by a low platelet count, prolonged bleeding time failure of the blood clot to retract a normal clotting time, the appearance of petechia below a tourniquet, and hamorrhages beneath the skin and from the mucous membranes. While many forms of purpura are not relieved by removal of the spleen in the chronic relapsing form, which is usually hamorrhaeic splenectomy results in cure Leu kæmias are regarded as a malignant overgrowth of the leucocyte forming cells which escape into the peripheral blood stream Splenectomy therefore cannot he of much value

Huses stated that since all purpuras are hermor happer the name "purpura harmorhappers" is not sufficiently descriptive. He suggests the name used by Tdyr—themorhappe dathesis. He has had two cases of splenic anzima with advanced cirrbosis of the liver in which a complete s imptomative recovery followed splenictions. When the theory is the properties of the preference when the splene makes as an ideal control for preference when the Splene Claim which marked improvement occurred after the operation.

WEDER reported the occurrence of acholunic paudice in four generations. One subject was seventy six years of age. As all of the subjects en joyed good bealth it is evident that splenectomy is not always necessary in this condition.

GORDON emphasized that purpura may not be a sign of purpura harmorrhagica. Hence in all cases of spontaneous hierding the number of platelets should be determined and splenectomy should be performed if it is found deficient.

KELLY MANSON BAIR and WARING called at tention to the fact that cholcystectomy has often heen performed in cases of spleme anemia. In Alala axar in which the spleen is enlarged, splenectomy has not been attempted.

MANUEL E LICHTEVSTEIN M D

Escudero P and Vareta M E The Condition of the Bone Marrow in Hiemolytic Icterus Before and After Splenetiomy (Estado de la medula osea en la retencia hemolitica antes y después de la esplenectoma) Res med Las Am, 1992 NI, 1011

In the cases of three patients with harmoly timeters the upper that of the tibus was trephned and the bone marrow examined. The bone marrow was active in the disphysis of the tibus although the patients were adults. The erythropocitic reaction was of the orthoplastic type. In the case of one patient a second buopsy was performed four months after splenectomy and the results of the two hopses were

compared. It was found that the bone marrow returned to a condition of functional inactivity after the splenectomy.

The authors conclude that in hamolytic ieterus the erythropoietic reaction of the marrow of the long bones is secondary to increased destruction of erythrocytes by the spleen

AUDREY G. MORCES, M.D.

MISCELLANEOUS

Pendergrass F 1 und ktrk, L. The Significance of Cas under the Right Dome of the Diaphragm tm J. Rocultenel. 1020 xxu 238

The authors report two cases of hepatoptoses and two cases of reputired viscois in which the recentgene gram disclosed the presence of gas under the right dome of the diaphragm. He then discusses the differential diagnosis of conditions in which gas is found in this region. These include trialposition of the viscers subphrenic abscess and the presence of free gas after operation. Warms II karn W D.

Carnett J B Neurnight of the Intercostal and First Lumbre Nerves Tennishams M J to 9 xxii, 376

Abdominal pain and tenderness are focated in more thin eo per cent of cuess in the anterior abdominal wall and are entirely independent of intra-bidominal lesion. In prietal neuralgus the chief symptoms are pain and tenderness. Very exceptionally, insucular rigidats is present. The pain occur in any part of the abdomin its site depending upon the nerve or nerves invoked. It is far more frequent on the right side than the left sube but many instances the bilate gratefully in several to determine the present and tender to the left side but may instance the bilate gratefully in several to deferred the side of the present and in the same person at different times.

The nerve supply of the unterior abdominal wall is derived entirely from the six lower intercostal and first lumbar nerves. Irritative and milammatory lesions of these nerves are very common but are usually not considered in the diagnosis of abdominal prins and tenderees.

nam and tenderes.

Acute attacks of intercostal neuralgulare usually due to acute toxemia which commonly arrises from infection of the upper respiratory teact. Tumors and other lesions of the splinal cord are seldom re-

sponsible for neuralgea Neuralga due to subcauses is more spit to be chronic than acute letters to the man produce acute panetal neuralga Trauma especially fractures of a verterbal remblya process or of a rib may cause duret hosy treates of an intercostal nerve. Falls on the buttocks with jaceting of the spine may result in widespead neuralgas.

In its chronic form intercostal neuralgia indicates a vertebral lesson more frequently than any other condition Before the thirty fifth year of age the most common vertebral causes of intercostal neu ralgia are scoliosis and excessive lumbar lordosis After the thirty fifth year the most common spinal cause of such neuralgia is arthritis Intercostal neuralgia may be produced by any form of spinal arthritis but occurs most frequently in his pertrophic form Hypertrophic osteo arthritis of the spine is the most common cause of the neuralgis in the upper abdomen which simulates gall bladder disease The nerve lesion of spinal arthritis can probably be ascribed to an inflammatory exudate pressing on the spinal nerves or their roots in the intervertebral canal or in the epidural space of the spinal canal. Syphilis is not a common cause of intercostal neu ratera

In intercostal neuralita the tendences as far more widespread than the spontaneous pain for the detection of parteal neuralita palpainton should be done while the patient holds has abdommal musdes at tense as possible. Any tendences this detection must necessarily be parteally the state of the must necessarily be parteally as the state of the must necessarily be parteally the state of the patients of the patien

Fenderness on palpation that is present over relaxed muscles and completely absent over tensed muscles is within the abdomen and due to a vaceral lesson. Tenderness found both over relaxed and tensed muscles is located in the anterior partet and is due almost invariably to intercontal neuralization. The treatment of the syndrome of intercontal neuraliza-

ralgia is dependent upon the underlying cause
Recognition of the frequent occurrence of inter
costal neuralgia and proper diagno is will present
many futile laparotomies Sauter Kuni M.D.

GYNECOLOGY

UTERUS

Cotte G Remote Results of the Schauta Wert helm kjelland Operation in the Treatment of Genital Prolapse (Révultat slogness del operation de Schauta Wertheim kjelland dans le traitement des prolapsus génitaux) Gjiner et obst. 1929 ux 337

Schauta s operation cannot be used in all cases of prolaps. I from an anatomical point of view of prolaps i from an anatomical point of view interposition is only a measure additional to colpo perincorrhaph to correct tertain existocles. In uncomplicated cystocele with the userus fixed in uncomplicated cystocele with the userus fixed and good position and the shding of the position view and any all reduced a good anterior colporrhaph with reconstruction of the perinnel spin unas suffice. If the uterus is in the horizonial position or if it is retry verted. Cotte usually completes the operation by lagament fixation according to the Dokern Pellands procedure. By this method he has obtained everle results. In the cases of vours women capable of pregnancy it is evidently the operation of choose of the contraction of the operation o

INDUCY, as opinion, interpretation is not to be used in prolapse of the third degree in which the users in prolapse of the third degree in which the users must be given a certain fixity by a complementary abdominal operation. Certain low cistoccles with urithrocele which are situated so far forward under the pubus eart that the eradied fundus of the userus cannot reach them are amenable to colporthaphy with reconstruction of the urerhar and of the sphinteer if the latter is deficient as is offered to expect the company, gential processing the company of the company without hypertrophic, clongation or the cervor are influenced flavorially by interposition only if the uterns which is low but not prolapsed is mobile and sufficiently large to othicitate the genital history.

Before performing the Schauta operation the surgeon should be sure that the uterus has not been drawn too far by the prolaps: that the nteroscard ligaments which anchor it to the posterior wall of the pelvis assure good fixation. that the uterus is mobile so that it can easily be swing forward that there are no superadded adneval lessons and that the uterus has sufficient volume to cushon the bladder.

In the period from June 1921 to December 1927. Cotte operated not times for prolapse. He performed an interposition operation 42 times—once according to the Schattus technique and 10 times according to the Schattus technique. The immediate results were kyelland technique. The immediate results were kyelland technique. The mendiate results were applicable to the secondary of the position there was a basence of secondary administration position, there was a basence of secondary administration that the secondary of the secondary daymand wall with which it was continuous the

certix well fixed, was only slightly depressed during efforts and the perincal band was perfectly re constructed. In a case conjugal relations were obstructed by a somewhat too large resection of the posterior vaginal wall and too close a perincorrhaphy In 2 cases there was some ganing of the perineum. but the prolapse did not recur None of the women wore a pessary Urmary disturbances had eeased All except a of the women who still menstrusted were free from menstrual disturbances exception complained of signs of uterine congestion at the period In this instance the sutures of the levatores were too tight. In a few instances sagittal adhesions between the anterior and posterior vaginal walls which formed a sort of double vagina were produced as accidents of electrization

Of the 42 patients the youngest was thirty years of age, " were sixty five years old 5 were between thirty six and forty years 19 were between forty and lifty years and fifteen were between fifty and

sixty one years

Cotte is not convinced that kiellands modification which is accompanied by considerable hamorrhagic cozin, is always necessary. If

operation is reserved to case of prolapse of the second degree in which the uterus is relatively well fixed at will be possible to use only the kyelland incisions which resect 2 cuneiform flaps on the cervix without loosening of the vagna Ifarmor rhagic cozing may then be avoided I for cases in which the cystocele is so marked that it seems necessary to interpose the uterus although the latter is not so well fixed as it should be it is better to per form a lagmanent fraction according to the Doleris form a lagmanent fraction according to the Doleris fixen to twenty days. Cotte did this 20 times with excellent results.

In second degree prolapse interposition offers and vantages of an anatomical nature wore it wekes a floor under the bladder and closes the gental hustus much better than ean he done with the lexatores which are always difficult to isolate and suture Moreover as the operation is done entirely through the wagna it is more rapid in its execution and done control to the properties as does the triple operation a measurement as does the triple operation and one of the properties of women with prolapse of maintaining the menopaute record degree who are approaching the menopaute and choice. In simple cases it can be done operationed choice in simple cases at can be done practically auxiliaries. It is operative mortality is practically and it ig gree permanent results which cannot be obtained as simply or any other plastic method

The author tabulates his 42 cases under the headings age clinical and anatomical data operation, immediate results and remote results

FACE

Genell S The Symptomatology and Diagnosis of Hæmatometra in an Accessor, Horn of the Uterus (Zur Symptomatologie und Diagnostik der Haematometra im Nebenhom) Acta abst el gynec Scand 1929 VI 177

The author has studied all of the cases of double deformity of the genital organs which were seen in the Women's Clinic of Lund during the period from 1904 to 1928 a total of 41 cases in 15 000 gynecologi cal cases admitted The conditions were deformity of the hymen, 14 cases, uterus bicornes symmetricus 12 cases uterus arcuatus, 3 cases, vagina septa 4 cases and uterus bicorois asymmetricus 8 cases. In s of the cases of uterua bicornia asymmetricus there

was bematometra of the accessory horn Uterus hicornis usually causes no obvious symp toms and is often found accidentally during explora tion or operation for some other condition

Stagnation of blood in an accessory horo causes disturbances in the menstrual cycle and intensive dysmenorrheric pains. The findings of palpation in this condition are not always decisive alone but if they are compared with the history, a clinical diag nosis is usually possible. Four of the 5 cases reviewed by the author were correctly diagnosed be

fore operation The treatment consisted in removal of the accessory horn A cure resulted in every instance

Ende F M Congulation Diathermy in Cervicitis Using a New Electrode with an Account of the Results in 200 Cases Am J Obst & Gynec . 1020 XVII 72

In the treatment of chronic endocervicitis by means of destructive heat it must be borne in mind that the work done on the tissue equals the product of the power applied to the tissue multiplied by the duration of the application. The amount of scar is determined by the uniformity of the doses of the

destructive heat In the use of the cautery the power applied is an unknown quantity Diathermy with the new electrode eliminates the long current pathway with its resistance which renders diathermy with the ordioary active and inactive electrodes uncertain The new electrode consists of a handle carrying a tapered tip of insulating material along one side of which are placed two parallel wires to make contact with the endocervix along the side of the canal The electrode is graduated in quarters of an inch to per mit the operator to measure the cervical canal hy simply introducing it into the internal os and on its removal ooting how far down it has been wet by the cervical mucus The object of this procedure is to determine the amount of tissue that is to be coagu lated and the length of the exposure that will be re quired It is not necessary to remove the mucus from the canal The presence of mucus is desirable as it provides good contact between the electrode and

tissue The treatment described is the least painful of all methods in which destructive heat is employed

When the disease is cotirely eradicated healing is prompt and scar tissue is negligible and softer than that produced hy the use of the cautery E L. CORVELL M D

Lindenberg F Uterine Fibroids California & West Med 1929 XXXI, 93

From 15 to 30 per cent of uterine fibroids are amenable to Vray therapy. When irradiation is restricted to the proper types it is nearly always successful It is applicable only to uncomplicated fibroids with increased menstrual bleeding. These are practically all of the interstitual type

The obliteration or destruction of the fibroid mass as dependent on the production of amenoriban by the destructive action of the rays on the ovanes that is castration. When the follicles are destroyed and their function reases the hamorrhages stop and the fibroid shrinks and disappears

Loung women women who wish to bear children and nervous women should not be treated by ura

Specific contra indications to the use of roent gen ray theraps are pregnancy an ovarian tumor prosalping degenerated fibroids submucous fib roids and fibroids that have undergone malignant degeneration

Fibroids which are not bleeding should be dealt with surgically if they require any treatment at all Tumors with bleeding of a metrorrhagic type should always be excluded from roentgen my

therapy Carcinoma as characterized by the metrombagic

type of bleeding of bright blood and foul smelling discharge

The diagnosis of sarcoma is usually more difficult Sarcomata often do not bleed at all Rapid growth of a tumor years after the chmacteric amenorrhota should suggest sarcoma Afibroid grows only as long as the ovacies are functioning. After the menopause a fibroid either remains constant in size or retro

The author a technique to obtain a castration or premature menopause effect chminates massive ray dosage and substitutes about one third of the erythema dose so that no other tissue can be damaged With the use of a high voltage machine furnishing about 200 kv Lindenberg obtains the desired effect in about two hours. He gives a half castration dose over each overy, abdominal and dorsal on four consecutive days

In a series of fifty nine cases treated by irradiation the treatment caused complete shnokage of the fibroid in 30 per cent a reduction of one half its size in 39 per cent a reduction of one third in approxi mately 18 per cent and no response in 5 per cent CHARLES F DUBOIS M D

Endometriosis in the Uterine Douglass M Cornua Surg Cynec & Obst 1929 xlix 138 In certain cases of salpingitis isthmica nodosa Douglass has found coroual adenomata more or less resembling uterine or tubal epithelium and with a varying amount of surrounding stroma similar in appearance to that of the uterus

As these lesions apparently do not always reart with characteristic changes to the menstrual cycle, hyperplasia of the endometrium is suggested. The severity of the infection is probably not an impor tant factor as the fimbriated ends of the tubes are frequently patent although the cornua may contain many adenomatous lesions and the lumen of the tubes may be completely replaced by hypertrophic and hyperplastic connects e tissue and leucocytes

While it is possible that the lesions described may occur as sprouts from traumatized tub.l or utenne mucosa after salpingectoms in the cases reviewed they were present at the time of salpingectorny RULLYD S CROY M D

Johansson J Mola Hydatidosa Destruens and Chorionepithelioma of the Uterus with Pul monary Metastasis Spontaneous Perforacion of the Uterus Acute Anaemia and Death (Mola hadati losa destruens und Chononepithelioma uten cum metastatibus pulmonum perforatio spontanea uteri anæmis acuta exitus) teta obst et ennec Scand 1020 VIII I 31

The author reports a case of mola hydatidosa destruens with spontaneous perforation of the uterus in which examination of the specimen showed also the presence of a chorionepithelioma Johansson has been able to find only ten similar cases in the literature

Painting with foding and Scraping the Epithelium of the Cervix Jodpinselung und Abschabung des Portioepithels) 2 rntrolls Gynack , 1929 P 1056

In the last two years 242 scrapings from the cervical epithelium were examined at the Second University Gynecological Clinic in Vienna -216 in the course of the last six months after preliminary painting with Lugol's solution The cervit was painted with the usual Lugot's solution Following this procedure normal epithelium becomes a daik brown within a few seconds while cucinomatous enithelium becomes sharply differentiated by an immediate transition in the form of white unstained spots. One hundred and sixteen scrapings were made before the introduction of sodine painting

Undesirable sequelæ from the scraping were ob served only in a single case slight fever which soon subsided It was afterward found that in this case the scraping was done improperly namely in the region of an erosion instead of in the region of the squamous epithelium Hence even this case cannot be attributed to the scraping and the procedure may be considered harmless

The di covery of carcinoma in the scrapings has become less frequent since the introduction of rodine painting which is attributed to the fact that since the introduction of todine painting a much greater number of cases have been examined Schiller em

phasizes again as in his first report that painting with indine can give only non specific results i.e. that sodine negativity and carcinoma are not iden tical What appears to be sodine negative may be carcinoma or merely hyperkeratosis or fraumatic Painting with todine can only desquamation attract attention to suspicious areas in which the epithelium is pathologically changed. The nature of the nathological change can be determined only he histological examination of the painted epithe hum curetted off. The curettage must remove the sonamous enthefium in its entirely from the substratum "Cell smears ' are not sufficient and should not be used. If complete pieces of the enithe hum are not found in the histological section, the technique of the curettage was faulty carcinoma is suspected during the clinical examina tion because of foul smelling leucorrhea or hamor thages and the painting reveals no suspicious area in

the region of the cervical epithelium carcinoma must

be sought deenfy 1e, in the cervical canal from

which it may possibly spread into the stroma of the

cersix beneath the intact squamous enithelium In the section obtained by the scraping earcinoma is diagnosed from the characteristic atypical and polymorphie character of the cells. Deeply nene trating growth clinches the diagnosis and can be shown by serril sections but is not absolutely necessary to establish the diagno is bistological characteristics of carcinoma are a sud den sharp transition of normal epithelium into carcinoma disappearance of gly cogen in the section stained by the method of Best, corresponding to the result of painting with iodine disappearance of the blue protoplasm in the prickle cell laver with the epithelial fiber stain of Pasini and a sudden increase of or genophilia with the potassium permanganate stain of Unna HEDUR (G)

Uddströmer M A Contribution to the Question of Simultaneous Malignant Tumor and Myoma of the Uterus 1cts obst et gince Scand 1929

The author reviews 769 histologically examined myomata removed in the period from 1905 to 1926 Fifteen (about 2 per cent) were definitely malignant, 14 showing sarcomatous and 1 showing cancerous deseneration Most of the women were between forty and fifty five years of age. In only a cases a of them a case of cancer did the my oma have a sub mucous location

The bleeding of malignant my omata is difficult to differentiate from that of non malignant my omata In 2 of the cases reviewed the bleeding began after the climacterium but in the cases of 2 other patients who had passed the menopause there was no bleed ing In r of the latter the myoma was still submu cous When the myoma is situated elsewhere there is less reason to expect bleeding

Pain is often associated with ordinary myomata but seems to be more frequent in those with malig nant degeneration Signs of cachevia are surprisangly rare. They were pronounced in only a of the cases reviewed. Bladder and intestinal symptoms due to pressure were present in 3 cases. Tendemess on palpation was found in 5.1 to was perhaps more than a concidence that in a cases the myomata had been irradiated. It is generally held that myomata suspected to be surrountous should be evcluded and a state of the control of the control of the case of the control of the control of the control of act as stimulating does on the cells of malapanit tumors. Rapid growth of the neoplasm occurred in 3 cases.

In 3 cases operation revealed dilated sens on the surface of the tumor. In 3 the reoplasm was a blu ish red and in 21 had a soft britle convistency. In 3 cases the cut surface was soft and endematious in 1 th was a gravish ellow and in 6, it suggested a greenish jelly. In 7 case the whole tumor was cystically degenerated.

In only 1 case of malignant degeneration was the diagnosis made with certainty before the operation In 1 case malignancy was suspected before the operation and in 2 cases during the operation

A cure lasting for at least five years was obtained in 7 cases (47 per cent). Most reports give the incidence of five year cure at from 20 to 25 per cent

The author draws the following conclusions

1 When before the menopause a uterine tumor
begins to grow auddenly and causes disturbances in
the form of hemorrhage pain and loss of weight

malignancy should be suspected

2 When during or after the menopause a uterine
tumor continues or begins to grow malignancy is
almost certain even if bleeding does not occur

EXTERNAL GENITALIA

Bey N M Urinary and Rectoudinat Fistulæ in Women J Obst & Greate Brit I mp 1929 22221

The author gives a résume of 76 cases of unnary fixtula in women operated upon by him and his associates in Expt. I wo hundred and thirty one were cases of vesico aginal fixtula. Two hundred and thirty eight of the patients were cured 28 were the level and to were not beneficied by the operation in 250 cases the fixtule was the result of a difficult altor and in 38 was due to accelerate of a difficult attornation and the case of the control of the difficult of the control of the co

In all cases careful pre operative preparation was given and the operation was performed under sto vatue spinal anasthesia. The author attributes the high incidence of good results to attention to details such as good exposure and the use of artificial fight.

Stovaine anxisthesia permits thorough depression of the posterior vaginal wal! The bladder wall dissected back sufficiently to give ample room for the insertion of sutures without taing them too tightly. In placing the sutures the author uses

small round needles and does not perforate the bird der wall

Bey extes also the results in apoperations forcetsizing all fixtuits in women. In a rid their case the condition was due to the arregular healing of pensed facerations in solving the rectionizing stepture. For title situated at or near the penseum were traited by aplitting the penseum and performing a complete permicorrhaphy and those in the middle that of the vaging by vaginal teptur. Facilitis in the valid vertreated by the abdominal route. There was only it failure.

MISCELLANEOUS

Cassidy L and Stumpf R \ Ray Treatment of \\non Malignant Cases in Gynecology \ Imk I \(31 \) Sc \(1929 \) 6 8 \(549 \)

Lassidy and Stumpf are very enthu tastic re and ing the use of the \ ray in the treatment of non malignant gynecological conditions

D) smenorthers was treated by tradition of the hypophysis with resulting cure in 50 per cent of the cases. In about 75 per cent of the case of desementation revealed a small uters with a long conical cervix and acute antelletion.

Menorrhagia and metrorrhagia were strained benefited by irradiation of the spleen. The result is ascribed to the increased production of Bann fermed with consequent rapidity of blood coagulation. The authors report thirt cases in twenty-one of which the symptoms subsided completely.

The symptoms substitute to the parties as a symptom such as primary amenorities, that is with probably, no ripening follute influence and a small underdeveloped uteres did not repond sell to the \rax stimulation. In those with obsometor those there was a very satisfactory return to normal function after the irradiation.

In acute and chronic pelvic infections striking results were obtained from irradiation over the focus of infection Crarkles F DuBoi MD

Scheffley L C and Schmidt W H Drathermy as an Adjunct in the Treatment of Peiric Inflam matory Dusaus Am J Obst & Gynce 1929 vvui 230

Scheffe, and Schmidt made a comparative study of policy and circumstrated with and subtout distances. They believe that the beneficial results obtained from distherm a reduce to improvement of the execulation rather than to the heart state of the execulation rather than to the heart state of the circumstrate of the execution of bacteria. They state that call in conjunction aspecific treatment I must be superised by a state of the comparation of t

Distribermy is indicated especially in the cares of joung somen with a first attack of pelvid design with or without admean masses in whom acute symptoms and fever have subsided. If you will be a subsided a first admen recurrent cases. When there is a marked reaction characterized by severe pain or behaviorable by school he descontinued for a fund at least. It should

never be used in the presence of fever or in cases of pelvic peritoritis, myoma or ovarian cysts or din ing menstruation or profuse bleeding of an inflam mator, nature F. L. Correct M.D.

Read C D and Roques F The After Results of the Operative Treatment of Endometriomata A Study of Forty One Cases Proc Roy Soc Med Lond, 19 9 NW 1441

The authors studied the results of different forms for treatment in forts one cases of endomentoms. In all the dragnosis was contirmed by microtogue et ammation. The ovary was involved in twents the cases (for per cent). In some of these one ovary was removed completely in others both ovaries ware removed completely in their complete removal was temporated completely or their complete removal was temporated in the contract of the contract of the subsequent courrence of pregnancy in any of the patients treated conservatively. Of thirteen cases in which all obtains tissue was removed a permanent

cure was obtained in ten. In one case the treatment was unsuccessful and the patient was subsequently treated with radium. Two patients were subjected to hysterectomy and complete removal of all accessible or, arran tissue after conservative surgical measures had falled.

Uterme endometriomata were treated by local excision or by total or subtotal hysterectomy with or without salpingo cophorectomy. The results

were very satisfactory

Three cases of endometriomata occurring in abdominal scars were cured by surgery. An endome trioma in the rectovaginal space was successfull excised by way of the vagina. One case of umbilical endometrioma was treated by excision of the umbilicus with a satisfactory result.

The vounger the patient the stronger the indication for conservative treatment except when the tumor is large and there is extensive infiltration of the surrounding structures. In inoperable cases and cases in which surgery has failed radium is of value

HARRY W FINE M D

OBSTETRICS

PREGNANCY AND ITS COMPLICATIONS

Cragert O The Sellheim Luctife von Meriz Alcohol Estract Reaction and Some of the Sources of Error (Leber die Alcohol Lytrack Reaktion nach Sellheim Luctife von Meriz und einze ihrer Fehlerquellen) Monatzecht f Geburish n Charde, 1939 (1938, 41

In the first part of this article the author reports in investigations regarding the Sellheim Luctige von Mettz alcohol-extract rection part of which were done, proclaboration with Zell. In the use of placent; extract in tests of 156 sera a correct day nosses of pregnancy was made in 874 per cent. In 80 sera tested with carcinoma extract the test was accurate in 17 st per cent. Wherea is na excurate result is usually obtained in only 50 per cent of aces of car traction 17 services of the services of the 18 per cent. The first per cent of the 18 per cent. The first per cent of the 18 per cent. The first per cent of the 18 per cent. The first per cent of the 18 per cent.

I A positive alcohol extract reaction in the use of placenta extract may be considered a very probable

aign of pregnancy

3 A positive alcohol extract reaction with car cinoma extract indicates with great probability the presence of a carcinoma of the uterus provided pregancy my omitat and iollammatory processe can be ruled out. A negative reaction does not exclude car enoma of the uterus and is no extremo nof freedom from recurrence after a radical operation for carcinoma.

3 Neither a positive nor a negative alcohol ex-

the sex of the fetus

In the second part of the article the author reports on physicochemical investigations undertaken in part with Kindt on injection tests with the extracts these disclosed interesting mutakes. In the placenta extract the requisite minimal quantity of 0 027 per cent of free hi drochloric acid was not present more over there were coosiderable fluctuations and differ ences in the salt content. The hydrogen ion concen tration varied considerably. In the carcinoma ex tract the differences in the free hydrochloric acid and hydrogen ion concentration were less striking It must therefore be assumed that soon after its preparation the extract undergoes a change in Its triphasic system due to some unknown factor wbich may considerably influence the accuracy of the re GRACERT (G) action

Lavell T E The Diagnosis of Ectopic Gestation
Am J Obst & Gynee, 1929 xvn1 379

This article is based on 410 consecutive cases of ectopic pregnancy treated on the gynecological serv

ice at Bellevue Hospital New York duning a pend of seventeen years Four hundred and as of the women were operated on In 4 cases the conduct was demonstrated at autops. In about 30 per cent of the cases operation was performed within testly four hours a first the patients admission to the borrhold of the conductive the production of the conductive th

The average number of pressous pregnances rat two and eight tenths and the average number of children born two and three tenths. In appear, match, 25 per cent of the cases the last pregnary had occurred within two years in a per cent while three years and in 6 per cent within diveyents of 49 women are were unmarried, at per tent became past within two years.

Abdominal pain was present in every case in which the history was reliable or complete This pain was characteristically variable with sudden exacerbations. Radiation of the pain especially for the chest or shoulders, is of and in the diagnoss.

lagical bleeding was extremely irregular and subject to remissions. A large majority of the patients had only slight or spotty bleeding occurring at long

ancevais
An extremely valuable but a frequently made
symptom is the sudden authents due to the shock
produced by even alight interest and the suddenproduced by even alight interest were very sel
dom reported. Urnany symptoms see frequent the
not characteristic Abdomain Japan on unabation or
defractation is suggestive but not typical of frequent
in about to per cent of the case reviewed on man
was pulpable on vagmal examination. For the
way see that the sudden size of the defection of free
blood in the cuide size.

There were 31 extipute premaneurs on the right sed and 14 on the felt and Twelve were lateritial, x was ovarian and x was shdominal In 3 cent there were to min fetures but there was no case of blatteral tubul or concident utering premared to the state of the state

The diagnosis of ectopic pregnance, is still difficult in a very large number of cases. Unfortunately very little except oegative help can be expected from

the laboratory

In the discussion, TAYLOR said that be does not hasten operation for ectopic pregnancy unless the patient is in shock and there is a possibility that bleeding is still going on

DANNEUTHER called attention to the fact that a frequent symptom is seesitiveness of the ceruir on

manipulation

In closing the discussion LAVELZ said that the operative death rate is 268 per cent and is influenced a good deal by the type of case. Decidual casts are very seldom reported by the patient and are seldom seen in the hospital

E L CORNELL MD

Jerlov E. The Diagnosis and Treatment of Extra Uterine Pregnancy (Zur Diagnose und Behandlang der Extrauteringraviditaet). Acta obst et gwee Scand, 1939 vm 249

In a series of eighty six cases of extra uterine pregnancy the author studied the blood pressure and hamoglobin and the relative value of the transfusion of autogenous blood and of blood from a donor He states that the changes in the blood pressure and hamoglobin due to internal hamorrhage occurring in extra uterine pregnancy have hitherto received little attention although they are often of diagnostic value Reduction in the blood pressure occasionally very marked is nearly a constant phenomenon with in a few hours after a free internal hamorrhage. The degree of the reduction at a given moment depends more on the time that has elapsed between the onset of the bleeding and the blood pressure measurement than by the quantity of blood lost. Therefore when the blood pressure is not determined until some time (e.g. twelve hours) after the beginning of theham orrhage it may be found normal. In the cases studied by the author the blood pressure was lowest in those of irregular bleedings with a relatively large loss of blood Systolic pressures as low as from 20 to 30 mm. Hg were noted

In cases of limited relatively small bemorthages there is generally no reduction in the blood pressure unless a fairly acute hemorthage has occurred with in a few hours immediately preceding the blood pressure determination. Even in such cases the re

duction is usually slight

It seems that the reduction in the blood pressure is usually ascribable to the loss of blood from the blood tracts. The loss of blood into the personal cartly is occasionally accompanied by a condition cartly is occasionally accompanied by a condition of the co

In all cases the hamoglobin was found reduced. It must be borne in mind however, that after a

single internal hamorrhage the hamoglobin is lowest between the second and fifth day after the onset of the bleeding

A drop in the harmoglobin has most significance in cases of restricted harmorfages in which the differential diagnosis is occasionally difficult. In cases in which a tumor develops in the pelvis within a few days and there is a simultaneous decrease in the hemoglobin without external bleeding from any other organ the reduction in the harmoglobin is probably of decisive improviance in the diagnosis.

In the Sahhatsberg Hospital 186 cases of extra uterine pregnancy were treated in the period from January 1 1919, to June 30 1927 Three of the women died One died of miliary tuberculosis which was entirely unrelated to the pregnancy. The two others died of peritonitis probably caused by a simultaneous chronic salpingitis. The mortality was therefore I I per cent There were no deaths from hamorrhage The governing principles in the treat ment were (1) immediate operation in cases of copious free hæmorrhage (2) operation in cases of hmited hamorrhage in which the diagnosis is cer tain, expectant treatment first in cases in which the diagnosis is not certain and (3) operation in cases with progressive symptoms conservative therapy in those in which the symptoms are decreasing No case was treated by the transfusion of autogenous blood or of blood from a donor

The experience at the Sabbatsberg Hospital in dicates that the danger of latal homorrhage and the necessity for transition are etaggrated. The transition of autogenous blood is associated with date or on account of the salpingitis which is usually present in these cases.

Husfeldt E Anzemia of Pregnancy Caused hy Lead Poisoning and Resembling Pernicious Anzemia (Pernisosa achaliche Graviditatianae mia durch Bievergifung hervorgerufen) Acta obs d typec Stand 1929 vill *2

In the case reported by the author the anæmia was the result of an acute or subacute possoning due to red oude of lead (PhO₄) taken as an abortive. It was severe, slightly hyperchromatic, and associated with acterization and a neutrophile leucocytosis.

The cases of permetous anema of pregnancy sheh have been reported in the literature have shown a very varied blood preture. True permetous anemas and lectoperma a relative lymphoty loss and thembogensin has been found as well as simple hyperchromatic anzems and hyperchromatic anzems and manual accompance by a neutrophile leucocy tosis with may loss that the constitution of the condition as so fitte very doubt the cuesation of the condition as so fitte very doubt

The author emphasizes the importance from the therapeutic standpoint of great care in the diagno as of permicrous animal during pregnancy since in the presence of severe animal the further blood loss caused by interruption of the pregnancy and the possibility of infection constitute grave dangers

Peckham C H Chronie Lephritis Following Letampsia Bull Johns Rophus Hosp Balt, 1929 xlv 176

It is generally believed that there is httle probability of the recurrence of calampas or the deepment of chronic nephritis following eclampas. However a woman with chronic nephritis not infequently gives a history of a previous toverana of gregamer. For that of Stephilac botained exist has tory in 30 per cent of the cases of nephritic women under forth five / cars of age and in the majority ound that the incidence of pertained a transfollowing eclampaia is greater than was previously suspected.

In the obstetrac clime of the John Hopkuns Hopkuns Hopkuns Hopkuns, and etterny has been mide damage that ten years to pretail patients expecially those who had ten years to pretail patients expecially those who had toxams to return for re-examination threten months after deliver. As the result it has been months after deliver. As the result it has been provide to obstant adat on averaty four patients representing events seven cases of eclamps; (three patients had ten afterds each). Of these women patients had ten afterds each of the patients are considered to have developed chrome reputus. The constraints which we have a several patients and women who had had not patients and the midd type and women who had had net patient eclamps; showed a higher incidence of nephritus relamps; showed

eclampsia Age and multiparity were found to be predispos ing factors Sixty six and six tenths of the nomen over forty years of age developed chronic nephritis and 39 per cent of the multipart as compared with 12 per cent of the primipare. It was found also that the more marked the hypertension and the greater the amount of albumin in the usine (as shown by the I shach method) the greater the sacidence of per manent renal damage. Forty eight per cent of the patients with a systolic pressure of 200 or over and as per cent of those with 10 cm or more albumin to the liter of urine were found to be nephritic while none of those with a pressure less than 170 was affected Moreover it was noted that the longer the toxemia had been present before delivery the higher the incidence of permanent renal damage

The blood chemistry findings the number of convulsion: the time elapsing between the development of convulsions and delivery the duration and sevent to of the labor and the anasthic employedseem to have no effect as regards the frequency and seventy of subsequent chrome nephritis. Nor can the findings as lite as six months after delivery he taken as a reliable guide to the future.

In twenty one of the seventy seven cases of ce lampsa reviewed the condition developed in patients who were believed to have had adequate prenatal care having been in attendance; it the prenatclinic for six weeks to longer where they were seen once a month up to the seventh month and eventuo weeks thereafter. Of these twenty-one patients four developed eclampsis at home six within thelve hours after their admission to the hospital and eleven, twelve or more hours after their admission E.L. Edo MD

Couvelaire A Progress in the Prevention of Fetal Mortality During Gestation (Progra risks days la prophylane de la mortalité loctale product la gestation) Gynée et absi 1929 201 477

The figures of the Baudelogue chore with regard to fetal mortative before the onset of lalor tows to decline from 23 to 143 per 10 coe since the end-years of this centure. This improvement courted chiefly in the mortality from symbias in the second half of pregnancy, in which the decrease was from TIT to 45. However some of it occurred in the field mortality associated with abbumouran hyperkowns and convulsive and hamorrhagic relamp is in the mother.

Two periods are compared the period from 1901 to 1008 with 20 924 births and the period from 10 1 to 192, with 22 166 biribs The number of let. deaths in these two periods respectively were cases of albuminums 105 and 56 cases of ton a sive eclampsia 17 and 11, and cases of uteroplacental apoplety 25 and 24 The coefficient of fetal mortal ity associated with these syndromes has therefore fallen from 144 to 41 Cases of convulsive eclampsia decreased from 50 per 10 000 in the period before 1994 to 14 per 10 000 in the period from 1916 to 1020 However the graph shows no change between the period from 1906 to 1915 and the period from 1016 to 1926 The decrease in the Ictal muriality in the avadromes of humoral disequilibrium was probably due in large mea ure to prenatal care PLOYENCE A. CASPENTER

Murphy D 1 The Outcome of 625 Pregnancies in Women Subjected to Pelvic Radium or Reest gen Irradiation in John of One 19 % vin 170 Goldstein L and Murphy D P Microcephalic

Goldstein L and Murphy D P Microcephalic Idlocy Following Radium Therapy for Uternet Cancer During Pregnancy in J 061 of

Gynec 1929 XVIII 189 Merrity attempted to determine the effect of arradiation of the pelvis of women with radium or the toentgen rays on the health and development of subsequent children. The cases were divided into preconception and postconception irradiation He found that irradiation before conception may be fol lowed by the birth of unbealths or defective chil deen and that postconception irradiation is ex tremely likely to be followed by serious defects in the offspring The most common defect after postcon ception irradiation is microcephaly a fact which strongly suggests that the abnormalities are the re sult of the irradiation received by the embryo Murphy therefore suggests that pelvic irradiation should always be preceded by curettage in order that straduation of an embryo may be avoided He believes that the pregnant uterus should never be subjected to radiotherapy and that if the presence of an embry o is not discovered until after irradiation the pregnancy should be terminated at the earliest possible moment

GOLDSTEIN and MERPH's report a case of micro cephalic idiocy following radium therapy for uterine cancer during pregnancy The mother aged twents nine years had had two pregnancies. The first re sulted in the birth of a normal female child at term in March 1014 This child developed normally After its birth the mother did not menstruate again until January 1016 Bleeding then occurred irregu larly for four months and at the end of that time be came continuous. Examination revealed springing from the left side of the cervix a pedunculated soft friable and ulcerated mass about 2 in in diameter A clinical diagnosis of papillary carcinoma second stage was made. The tumor was removed with the cautery and 18s mem of radium filtered with 1 mm of brass and 0 5 mm of aluminum were in serted at the site of the growth and allowed to remain for twenty four bours (4 440 mgm brs)

The second child a boy was born pontaneously with the vertex presenting after a labor of eight hours on June 21 1916. The puerpersum was un

eventful The mother is well at the present time The child at birth weighed 2 lb 12 02 He showed no gross abnormalities and no asphytia but was about six weeks premature. For the first six neeks of life he kept his eyes closed most of the time and had to be fed artificially Dentition began when he was nine months old. He was unable to walk until he was five years old and he now trips very easily and often falls. He has never learned to talk. His parents have trained him to obey very simple com mands such as sit down and come here but these must be repeated several times. He can make known a few wants by means of gestures 1115 cen eral behavior has always been good. He cannot wash or dress himself There has been no history of convulsions spasms or twitchings He has never been seriously ill

At the time of this report the how was twelve e.gr. of age underweight (do lb) and poorly developed lish height was somewhat below normal for his age (pranicall) he was normal. The parted and occups tal regions of his head were both flattened. He had a fixed and shared vacant fexal expression. He was able to walk, but not in a superous manner. He held a below that the state of th

LABOR AND ITS COMPLICATIONS

Lindén O The Prognosis in Parturition for Old Primiparæ at Sodra Barnbordshuset Between 1912 and 1927 teta obst et gynee Seand 1929 var 35

The author reports the findings of a review of the cases of 202 primipars over forty years of age who were delivered at Sodra Barnbordshuset in Stock

holm in the period from 1912 to 1927 inclusive. The purpose of the review was to determine whether the expectant treatment practiced at that hospital has given results which justify its continued use call for its decontinuance in favor of more active therapy with the more frequent performance of createran section

About 17 were cent of the patients were delivered after taske hours and about one third or two thirds of them within twents four hours. In the cases of about o per cent labor lasted longer than forty eight hours. Strity per cent were delivered spontane only and a oper cent with artificial help, 34 per cent of the latter by means of forceps. Cassarean excition was done only nore—in a case of breech are delivered in the course of the same sixteen year need to be presented as the course of the same sixteen year need of 56 per cent were delivered with forcess.

Torty of the patients whose cases are reviewed had had a previous miscarriage and \$5 had pre mature rupture of the membranes but these factors did not influence the average duration of labor or the prognosis for the mother or child in the group as a whole

The maternal mortality was nil and the infant mortality 10 2 per cent. If 3 cases in which the child's death was due to prematurity or deformity are excluded the infant mortality was 8 per cent. The mortality of the infants of the total number of primipara, was uncorrected 3 78 per cent. and, corrected 2 appr cent.

Because of the favorable results obtained the author believes that on the whole expectant treat ment should be continued but he regards it as necessary that the women be cared for in a hospital lle regards exsarean section as justified in cases in which both the child's and the mother's life are er dangered as in placenta pravia and eclamosia and in those in which the child's life is more endancered than the mother's as in abnormal presentations and the mother is very anxious to have a child. He believes that in all other cases it is wiser not to expose the mother to the greater risks of casarean section particularly because nomen subjected to this operation are rarely willing to become pregnant again for fear that a second casarean section will be necessary

Schulze M. Labor in the Elderly Primipara Factors in the Prognosis J. im 11 Ass. 1929 www. \$24

The dangers and difficulties of labor in the cases of clderly primipare have been somewhat exagger ated. In general neither the fetal nor the maternal mortality is increased above the levels generally accepted as normal and the average duration of labor is only slightly prolonged. About 20 per cent of the women have strikingly rapid and easy labors.

Dystocia may be expected in about 15 per cent of the cases but is usually dependent on complicat ing factors rather than on age alone A careful consideration of the patient will usually permit a fauly accurate prognoss even before labor begins Abnormal presentations and contracted pelvs both of which are more frequent than in sourger women increase the necessity for operative intervention and with it the danger to both mother and child A woman beginning thor with the head engaged in a normal pelvis in an accupit anterior presentation has little hichhood of difficulty. If she has good puins the likethood of dystoca is almost negligible

The most important single factor in the prognosis is the quality of the uterine contractions and this unfortunately cannot be accurately determined uptil after labor has set in However it is known that the frequency of inadequate pains increases

in recent years makes it possible without materially

with advancing age
The development of the cervical cusarean section

increasing the risk to the mother to await labor observe the type of the uterine contrictions, and then, if the contractions seem insufficient perform existent section. I specially in the cases of older women and those with previous long strading stend in Caractera section will probably alway a be seen any rather frequently at the greatly increased value of the child in these cases makes it desirable to decrease the feelal risk. Caracter 1. Davis M.D.

heumann II O Labor with Brow Presentation (De Surnlage, eburt) Arch f Gynack, 1929 cxxxv, 334

This article deals with the obstetricomechanical problems of deflection presentations. It is based on the obstetrical material of the last ten years at the University Of necological Climie et Marbary Among 6 400 abors brow presentation occurred in 8 (0.12 per cent) and face presentation in 44 (0.60 per cent). The author emphasizes that the term town presentation's should be used only when the brow is at the lower point on the pelvie floor in the ine of expulsions. How presentations are to be differentiated from brow positions. Of the Bosov provided the control of the pelvie of the floor of the control of the floor of the

The course of the 4 spontaneous delineares shows that when patience is exercised a living child may be born even when the labor is prolonged. Therefore the question as to whether brow presentation is in itself an indication for operative termination of labor

must be answered in the negative

In the first case the head passed through the entire borth canal with the frontal suture in the transverse direction and turned on the pelvic floor in the transverse diameter with displacement of the turning point from the mular bone to the upper jaw. In the second case the head passed through with the frontal business of the pelvic point of the pelvic point frontal business of the head of the pelvic point frontal business of the head of the pelvic point frontal pelvic point frontal ridge were subdeed transverse position persisted throughout the expulsion mechanisms to that the head was born with the frontal auture transverse II appears that no occurrence of the last turning most for a siderly normal in such cases. The greater the defection the sooner the face appears under the deceded. Farms of the pulsis. If the brow precedution approaches the sanceput position the eccept appear first. Heymann tates that after the brow has been to rotate in a backward direction be oblogop so his is undoubtedly the position most favorable for er pulsion.

With regard to the etiology of the brow presen tation the author holds the view that the occurrence of such a presentation can be understood only from a consideration of all positions of deflection Ou ander considers the brow presentation an incomplete face position The primary face position is to be differentiated from the secondary face presentation An extreme deflection may be produced even at the beginning of labor by inhibitory malformations such as gotter, hy groma of the neck etc. Honerer the chief cause of the deflection position is to be sought in the relationships between the fetal head and the maternal pelvis Among the cases at the Mar hurg clinic a normally sized pelvis was found 3 times an especially large pelvis twice and a moderate Contraction of the pelvis in the longitudinal diameter

Once
The author then asks the following questions
I llow does an anomaly of position occur (v)
What part is played in it by the shape of the head

(h) What part is played in it by the pelvis?

2 How does brow presentation occur? (a) What
Part is played in it by the shape of the head or the
fetus as a whole? (b) What part is played by the
Pelvis?

3 Why does the mechanism of labor differ from the general rule after the occurrence of a brow Presentation? (a) In relation to the passage of the head down to the pelvic floor (deep t answerse potition)? (h) In relation to the mechanism of et Publision?

He answers these questions as follows

1a A congenital ontogenetically inducted shape
of the head may lead to a presentation of the head
at the beginning of kabor which is far orable to a
certain passage through the pelvia. The same lord
base types of shape of the head that are found in
the adult appear quite pronounced in the neabors.

infant

th With shortening of the longitudinal diameter
at the pelvic inlet the biparietal diameter enters the
lateral pelvic sciencide opposite that of the Si
Gupt. The simplift sinks and the large lontantle
enters the line of expulsion. If the pelvic contraction
is greater the position of defection persists.

** greater tor position of detection persons are as a favor presentation may be developed at the pelvic inlet. In the presence of hereditary or other auto-state on their causes inherent in the fetus at effective no further deflection will occur. Also we therefore the stricture presentation the consentation from of the head may be the cause of a further deflection in the sense of a brow presentation for the sense of a brow presentation.

a) If the normal filling of the birth canal which leads to the regular expulsion is absent, as for example when the child is small and the pelvis is of normal size, or the child is of normal size and the pelvis is very wide further deflection and rotation may not occur with brow presentation the brow presentation persists as a so called incomplete face presentation.

3a The frequently found deep transverse position is ephanied on the one hand by the fact that when the skull is small the passage through the burth canal down to the floor of the pelvos proceeds rapidly and without any rotating force and when the bead is large it does not allow rotation because the occuput hing posternotly remains caught at the innommate here

As a result of the marked protrusion of the 3 b brow the head acquires a wedge or pyramidal form the spex of which is formed by the brow The bitem poral diameter takes the obstetricomechanical lead It takes its position in a longitudinal direction in the levator cleft in response to even the slightest resist Turning of the head begins only when the maxillobregmatic diameter has reached the levator cleft This version may not occur in the presence of a nide pelvis nith a related musculature. When the biparietal exceeds the bitemporal diameter in length the occuput is usually born first When on the other hand the biparietal diameter lies further anteriorly the face usually appears first under the lateral descending ramus of the pubis and the occuput follow

In an appendix the author reports on the brow and face presentations seen in the Dresden chaic (E Kehrer) in the period from 1910 to 1920

WILLE (G)

Lofquist E Central Tears of the Perincum (Bei ting zur Frage dei zentralen Damminsse) Acta obst el tince Scand 1929 viil 138

The author reviews or cases of entiral terrs of the perincum reported in the Interative and a case of his own. He divides the ruptures into z groups central ruptures due to tensation on the perincum and the reported in the

than in multipute. In the cases of multipare there is always some cicatricial alteration of the perineum due to a previous confinement. The shape of the party was for a programment about the shape of the party was for a programment about the shape of the party was for a programment about the shape of the party was for a programment about the shape of the party was for a programment about the shape of the party was for a programment about the shape of the party was for a programment and the shape of the party was shaped to be a programment and the party was shaped to be a programment and the party was shaped to be a programment and the party was shaped to be a programment and the party was shaped to be a programment and the party was shaped to be a programment and the party was shaped to be a programment and the party was shaped to be a programment and the party was shaped to be a programment and the party was shaped to be a programment and the party was shaped to be a programment and the party was shaped to be a programment and the party was shaped to be a programment and the party was shaped to be a programment and the party was shaped to be a programment and the party was shaped to be a programment and the party was shaped to be a party was shaped t

The shape of the pelvis is of no importance in the occurrence of central ruptures of the permeum

Hawks E M. The Maternal Mortality in 582 4b dominal Casarean Sections Am J Obst & Gynec 19 9, xviii 393

In 582 abdominal casarean sections performed in a single hospital by a large number of obstetricians

during the past minetiem years there were 12 deaths a mortality of 36 per cent. These deaths constituted to per cent of the total obstetrical mortality. In the last few years a better choice of the type of operation has kept the mortality down in spite of the fact that casarean section has been performed more freemently.

I olah. In discussing this report, stated that had under observation 5 patients who had been operated on by the Vest Fromme technique. In all of this cases the uterus is well above the unbilicus and complaint is made of metrorrhagin. The frequency of personnic that heen decreased by the adoption of a fip operation of the Beck, Kroende very little difficults.

BECK said that the low operation offers consider able protection against peritonitis and the classical procedure should be limited to cases in which time is an important consideration E. L. Connell, M.D.

PUERPERIUM AND ITS COMPLICATIONS

Tansinsin M S A Statistical Study of Puerperal Morbidity in Hospital Practice im J Obst & Ginec 1929 XVII 98

On the basis of the rigid standard of the British Medical Association, the morbidity in 446 obstet rical cases treated in St. Myrgaret's Hospital Shanghain was 709 per cent. This included cases of delivery by physicians not on the staff who had privileges in the shoopstal cases treated by midwives and physicians previous to their admission to the hospital and operative and appositaneous deliveries of all types. When mercurochrome actione alcohol solution was used in the preparation of the perincum the morbidity due to infection of the perincerrhaphy wound has only 15 feer cent.

laginal examination increased the risk of in

Operative procedures were accompanied by an increase in the morbidity. The morbidity was high est after exercise section.

Obstetrical morbidity due to pyelitis was high 246 per cent. Morbidity due to phlebitis occurred in only 1.33 per cent of the total number of febrile cases. The morbidity decreased with each sub-sequent pregnancy.

Lactation seemed to be a factor in the causation of puerperal morbidity E L Cornell M D

MISCELLANEOUS

Eden T W The National Inquiry into the Causes of Our High Maternal Mortality Rate Bril M J, 1929 n. 81

Eden states that the important problems as to the conditions determining the occurrence of purperal infection the causation of the toxemias and the harmorphages of pregnancy, and the steps required to provide better and longer practical training in mid wafers for methical students and midwives could not

be closely investigated by this inquiry and until they are solved we can hardly expect to make any marked change in the figures of maternal mortality which have for so many years caused the members of the medical profession the greatest concern and have now roused the conscience of the nation itself

According to the findings of the Aberdien inquirs. the maternal death rate of the unmarried mothers is more than double the total rate and the mortality from sepsis is 3 times as high as the total maternal

death rate from sensis

With regard to the health of the mother during pregnancy the Aberdeen records from the antenntal departments show that in general 80 per cent of expectant mothers are classed as heing in good" health. Of those who died in the period covered by the inquiry only 40 per cent were classed as having

good health

The advantages of antenatal supervision were confirmed by the fact that the death rate amone women who attended antenntal climes was approxi mately only one half of that among those who did not attend such clinics (3 8 and 74 per cent re-

spectivel.) The total number of maternal deaths in the city from all causes in the period of ten years was 6 6 per 1 000 1 figure rather higher than the average for Ingland and Wales The number of maternal deaths in the a 220 cases for which the institutions were directly responsible reached the astonishing figure of ra q per r ooo The corresponding number among patients attended in the hospital districts was 56 that among prtients attended privately by ductors 60 that among patients attended by mid wives only a 8 and that among patients attended by mulwives with medical assistance 25. The death rate from sensis was remarkably high also among nomen delivered in institutions and for whose care the institutions were solely responsible. The general mortality rate due to sepsis in Aberdeen during the period of the inquiry was 15 per 1 000 about the average for the whole country. In the remaining groups just specified it was below the average at taining the lowest point of all in the cases of women attended in the hospital districts among whom the rate was only o 7 per 1 000 that is, less than half of the general septic rate. The report does not distinguish the results in private nursing homes from those in other institutions. Thus the institutional death rate from albuminums and convulsions is more than 214 times as high as the general rate for that condition in the city (no emergency cases being included) the rates being 27 and 10 per 1 000 re spectively. Also the death rate from hamorrhage is more than double the general rate for that condition (r 4 and o 7 per 1 000) \s the report does not dis tinguish between antepartum and postpartum hæm orrhage the obstetrical significance of the latter figures is not very clear

It is evident then that the death rate from sensis in the institutions was exactly 3 times as high as the death rate from that condition in the whole city (4 5 and I 5 per I 000) For this fact no explanators or cumstances are mentioned in the errort

The instructive findings of this report are (i) the exidence suggesting that the general health and per haps also the physique of the mother has more influence upon maternal mortality than has been be Lieved heretofore and (2) the relatively high mor tality from all eauses among women whose confine most had been managed throughout in the in patient departments of hospitals and other institutions

A considerable part of the report deals with the causation of puerperal infection. The bacteriologic cal work confirms the view now almost universal accepted, that a hemolytic streptococcus is the crusative organism in all but a small minority or cases The question as to how this organi m gains access to the maternal passages is discussed. The theory that streptococci may make their habitat in the cervical and vaginal secretions during premants and after labor may become active and invade lacerations or the placental site is dismissed as being applicable to only a very small proportion of case We are told that the natural habitat of the hamolytic streptococcus is the throat Creat importance i attached to the possibility of droplet infection that is infection of hands instruments or appliances by droplets of saliva expelled in speaking or cough ing from the mouth of a corrier of the hamolyter streptoceccus In support of this view it is men tioned that in January, 1928 an outbreak of puer peral fever occurred in a maternity mati ution in Aberdeen Of the 12 women who became infected 4 ched The outbreak was found to be due to the hamolytic streptococcus Simultaneously there was an outbreak of seterus neonatorum which proved fatal in 7 cases and in 2 of the fatal cases the hamo-Is the streptococcus was proved to be the cause of the infant's death from septicemia In 5 of the throat cultures taken from the 12 nurses in the institution the hemolytic streptococcus was found Seventeen contacts among patients were also examined with the result that in 3 of them hamoly tic streptococci were found in either the throat or the uterus or both. Accordingly 8 of 17 persons examined were found to be carners

In considering puerperal sepsis we must face the fact that in institutions this disease still assumes epidemic form although the outbreaks are not com parable in extert or seve ity to those which devatated lying in hospitals so frequently in pre antiseptic days

It would appear that the provision of adequate facilities whether public or private for the isolation of all septic cases must be regarded as essential and that isolation mu t be effected immediately as in the case of all other notifiable infectious fevers for every day's delay multiplies the risks In fact, an isolation block is essential in a properly equipped maternity hospital

The report has been able to differentiate between the cases attended by doctors and those attended by midwives I rom a comparison of the results it apnears that the doctors cases showed a general mater nal mortality rate of 6 o per 1 000 and the midwives cases a rate of only 2 8 per 1 000 Attention has been called by Dame Janet Campbell, in the Ministry of Health reports to the fact that the returns of mid wives' cases in many localities show a death rate well below the average maternal death rate and Fairbairn has shown that the picked body of mid wives who work for the Oueen Victoria's Iubilee Institute for Nurses has achieved even better results than those disclosed by the Ministry of Health and that their results are progressively improving

Midwifery has long been regarded as an essential subject in the examination for registration as a medical practitioner and has taken its place aloneside medicine and surgery in the foundations of medical education To withdraw it from the sphere of the general medical practitioner would be to change its status as a hasic subject in medical education and would deprive the practitioner of work which be can undoubtedly he trained to do with success and with advantage to the community

It would indeed constitute a serious indictment of the medical profession if the opinion became estab lished that partly trained women are more success. ful in the management of normal obstetrical cases than are fully trained obstetricians

CARLH DAYS M D

Gibberd G F A Contribution to the Study of the Maternal Death Rate Lancet 1929 CEXVII 533

This study is hased on a comparison of the mid wifery in the Guy s Hospital Maternity District as

it is today and as it was sixty years ago In the twelve years from October 1863 to Sep. tember 1875 the total number of women delivered was 23 501 There were 106 deaths a maternal mor tality of 4.4 per roop. If this figure is compared with the present day mortality rate for the country as a whole the conclusion might be drawn that the advances in midwifery during recent years have led to no decrease in the dangers associated with childbirth Such a conclusion however is not neces sarily correct as the comparison is unfair. A much more comparable series is that of the 2r 423 dis trict cases of delivers in the ten years from 1010 to 1028 inclusive This number includes the cases of all women domiciled in the Guy s Hospital district and delivered by the hospital whether the delivery took place in the patient's own home of m the hospital

These 2 series of cases have been compared with reference to the maternal mortality rate. The differ ence between them is mainly that the one represents midwifery practice sixty years ago and the other represents modern practice In all other respects the 2 groups are as nearly as possible identical and any differences between them are to he attributed to inevitable changes in social conditions By limiting the cases to patients domiciled in a compact dis trict the distortion usually present in in patient figures has been eliminated and by including the

cases of all patients who though domiciled in the "district." were nevertheless delivered in the hos nital the distortion usually present in out patient figures has been avoided. The series may therefore be regarded as a fair average sample of the general population at least of the particular social class represented by residents in the Guy's Hospital district

The maternal mortality rate in the last sixty years has fallen from 44 to 103 per rooo and this im provement can be traced directly to changes in obstetrical methods The changes in practice have resulted in an increase in the amount of interference but even so the frequency of interference at the pres ent time is less than o per cent. It is contended that the mcreased interference up to this point is justified by the results obtained and that it may be an im portant factor in diminishing the death rate by eliminating those cases of profound obstetrical exhaustion that must have occurred sixty years ago It is to our improved aseptic and antiseptic tech moue that we must attribute the fact that, in spite of the much greater frequency of interference, the danger of subsequent sepsis has been very much reduced In cases of spontaneous labor the conscien tious use of a simple antiseptic technique and strict attention to the principles of isolation have practically abolished sepsis as a cause of death

Antenatal care has reduced the death rate in cases of disproportion and malpresentation, has made eclampsia a rare disease and has improved the gen eral bealth of the patient during pregnancy so that she is better able to face the risks of labor and the

puerpersum The use of intravenous saline or gum saline solu tion or of blood transfusion has contributed largely to the reduction in the death rate from postpartum hamorrhage and placenta pravia but concealed aecidental hamorrhage accounts for practically as many deaths as in former years and the cause of death in these cases seems to be a profound toxx mis which we cannot treat In spite of the enormous amount of study that has been spent on the toxemias of pregnancy since Galabin s time treatment for this condition when it has once developed (whether in association with accidental hamorrhage or as ec lampsia) is as ineffective as ever Apart from the experience gained from periodical swings of the pen dulum from radical to conservative lines of treat ment there is nothing of fundamental importance to add to the treatment of sixty years ago We have succeeded in preventing eclampsia to a great extent but we must not therefore imagine that we have idvanced in our treatment of the condition when it has once developed Under present conditions of practice an occasional case of fulminating eclamp sia or of concealed accidental hemorrhage occurs in spate of reasonable antenatal care and it is in the treatment of such cases that modern methods have proved so disappointing To prevent a disease is cer tainly better than to treat it hut until it is possible to prevent every case of severe towmia there is still

a need for efficient treatment

In the cases of delivery in the period from 1863 to 1875 the death rate from intercurrent diseases was 0 32 per 1 000 whereas in the cases of delivery in the period from 1919 to 1928 it was 0 24 per r 000 show ing that antenatal care has been unable greatly to benefit the pregnant woman who is already seriously ill with some other disease. This is to be expected since in such cases it is impossible to regard child bearing as anything more than a contributory factor in the fatal outcome and we cannot expect antenatal treatment to cure the primary disease. The close approximation of the figures in the 2 groups is inter esting in view of the question of the rehability of national mortality figures. How far do such figures. include deaths from intercurrent disease. It is sue gested that o 3 per 1 000 may be taken as a true measure of the deaths from non-obstetrical causes in an average unselected practice. If this is true it is obvious that these cases become a serious factor only when the total mortality rate is very low Certif Devi . MD

Solomons B Taylor W A Browne O D Bourke S and Others Reports of the Rotunda Hospital Irish J M Sc 1020 6 s 320

During the year from November 1 1927, to October 31 1928 2 346 cases were admitted to the wards of the Rotunda Hospital 2062 nomen were delivered and 1 717 women were attended at their homes In the last group there were 4 deaths-2 from lobar pneumonia, I from sepsis on the sixth day (the baby was born before the arrival of the attendant) and r from central placenta pravia

In 128 forcers cases there were a stillbirths Four deaths followed the administration of quinine and oil Pituitrin is rarely given in the second stage of labor, but is considered of value in certain cases of

delayed second stage

Albumia was found in the urine in 636 cases There were 18 cases of departe eclampsia with 1 death (a mortality of 5 5 per cent) and the delivery of 13 live babies. The fatal case is discussed in

detail The submammary Injection of saline solution is regarded as very necessary in cases of accidental hæmorrhage In 41 cases of hæmorrhage there was z death a mortality of 24 per cent In the ro cases of placenta previa there were no

maternal deaths but the fetal mortality was hi h

In 58 cases of uterine inertia there were 2 deaths Cusarean section was done at times In case a minor exsarean section was done for the removal of a tumor The classical operation was performed in 25 cases and the low section in to Twelve of the sections were done on account of previou section The indications were disproportion in 3, casts placenta pravia in 1 case prolapse of the cord in 2 cases beart disease in 2 cases contraction mag in 2 cases and vaginal tumor in r case

The authors emphasize the value of the lover seament operation. They believe that since the ratroduction of this procedure publictomy has few indications. In the cases reviewed a publictomies

were done with a death

Twelve destructive operations were performed The indications were disproportion alone in 4 cases disproportion and hydrocephalus in I case hydrocephalus alone in 2 cases and contraction mag dis proportion with hamorrhage fetal ascites ne lected shoulder presentation and a dead fetus and utenne inettia in r case each

In r23 forceps applications there was a maternal death

There were 4 cases of rupture of the uterus Re covery resulted in all

Labor was induced on times—with quining and oil in 43 cases by bougie in 19 by tents in 13 by punc ture of the membranes in 10, and by quinine of and bouge m o The use of quinine and oil is re garded as the best method if absence of danger tan be established

In 17 cases of prolapsed cord 12 hie habies were delivered In 1 case exsarean section nas done There was morbidity in only 36 cases in which delivery occurred without operative interference and in most of these it was not severe Fatrapelvic

morbidity was present in 30 cases In all there were ro maternal deaths The tatal cases are reported in detail

I H GLADDEN JR MD

GENITO-URINARY SURGERY

ADRENAL, KIDNEY, AND URETER

Claser M A and Kutzmann A A Emulsified Campiodol as a Pyelographic Medium Ann Surg, 1920 xc 270

The authors review the history of the development of opaque \(\) ray, media for use in the body cavities from bismuth colloid silvers, thorium outrate and halogen salts to campioods, iodized rapesced all in the form of an emulsion.

In the selection of an opaque medium it is neces sary to consider the atomic weight specific gravity, concentration and total thickness. The most im portant factor is the atomic weight. That of silver,

107 7 represents about the limit
In the author's studies saturated solutions of

thritten elements were made up in distilled water and compared with 5 per cent sodium noddle. When the shadow casting property was less than that of sodium noddle the solution was decarded. When it was more the solution was tested for tourity. The element of choice was sodium the atomic weight of which is 1 5 9. Compounds of sodine cast adequate shadows in low concentration and are readily soluble and of low tourity. The organic compounds of sodine were discarded because they were too tone, and many todiced oils such as 5th oils and almond oil proved to be too urtatures.

Calza oil campiodol or iodized rapeseed oil unha a specific gravity of o opa, has a saponofication value of from 167 to 178 an iodine value of from 25 to 178 an iodine value of from 35 to 178 and a vaccosity of 250 at 100 degrees F lis elemental iodine content is 43 per cent. It deterrorates slowly on exposure to light or heat and crasts an intense shadow. Its foracity is very low and it causes extremely little tritation.

Straight iodized oil is too visud and non miscible Emulsions reduce greatly both of those undestrable proporties. The best emulsions are made with acausa. A stable emulsion consists of one half acausa and ooe half iodized oil. This preparation is up to up to sterilie sealed ampoides and its sterilized by pressure at 100 degrees. C. The produce is miscible with vater and of low viscosity. If gives an excellent shadow and does not precipitate with urnary salts. It has been used successfully in twenty five cases and it as satisfactory as 12 5 per cent sodium poide. Busjawary Routar Mill

Fleischman A G and Anderson B Infantile Kidney J Am V Ass 1939 xcm 12

Infantile kidney is rarely described in the litera ture. It has been designated as congeoital atrophie kidney and recal hypoplasia. The possible presence of the condition must be thought of when ever renal surgery is contemplated. From the

embry ological viewpoot infantile kidnev is generally beheved to be due to arrested fetal development. There is ample evidence that strophic changes in a kidney may result from vanous diseases but its extremely difficult to differentiate between the small bidney due to a pathological process and the atrophic kidney due to one pathological process and the

The infantile ladney varies in size from that of a small bean to that of a walnut. Its location is usually the same as that of the normal organ its pelvis may be similar to the normal pelvis. In some cases it may have only a single cally a not others multiple small cally ces. Histologically, the iofantile kidney resembles the normal kidney except for a decrease in its cortical area and a

marked deficiency in the number of clomeruli The clinical diagnosis is not easy. Frequently there are no symptoms definitely suggesting the condition The roentgenogram is seldom of assist ance because of the extreme difficulty in obtaining a proper outline of greatly reduced kidneys Cysto scopy and pselography and the usual standard functional test are of practical value. The blad der is usually negative unless some concomitant condition is present. The ureteral orifices are also usually negative although atrophic changes of the circular muscle about the meatus bave been described Examination of the urine obtained through a ureteral catheter from the infantile kidney may be negative with the usual chemical and miscroscopic tests unless some lesion is present. The amount of urine is usually consider ably decreased but the decrease may be due to reflex substition following cystoscopy the other hand, the other hidney will secrete proportionately more urine in compression. The die output from an infantile kidney is always greatly diminished in amount while that of the opposite k dney is increased. The appearance of the dye from the infantile kidney is delayed while that from the opposite Lidney is usually normal An outstanding characteristic of infantile kidneys is their ability to concentrate urca within normal hmits although they are not capable of full function

Pyclography is of value but it must be bone in much that the size of the read polvus is usually not a reliable index of the size of the kidne; The renal pelvus and exclose are exceedingly disminished in size compared with the normal The pelvic coulting may be completely efficient or the pelvic size, but no size of the calleges may be completely efficient of the pelvic size, but no size of the calleges may be so undeveloped that the pyclogram may be so undeveloped that the pyclogram may be of no and it is difficult at times to differentiate this anomaly by pyclography from recoil tuberculosis recal tumors and chrosus infammatory lesson.

The decision with regard to surgers on a diseased kidney when the other kidney is infantle must be made cautiously because of the inability of the Infantle kidney to undergo compensatory hypertrophy Loris revers MD

Verney E B The Value of Physiological Tests of Renal Function But M J 1929 u 179

\ erney distinguishes two types of renal reservethe unatomical and the functional The anatomical reserve is determined by the number of renal nmits in the kidney, which is roughly to 000 000. It has been definitely proved that man is supplied with many more of these units than is necessary to meet the normal needs of the hody. It has been proved also that the glomeruli work fractionally. The functional reserve is determined by the magnitude of the pressure stimulus to secretion and the tone of the secretory unit. It has been shown experimen tally that there is a distinct relationship between the number of renal units and the magnitude of the pressure stimulus. A diminution of the anatomical reserve of the kidney is alway spartially or completely compensated by encroachment upon the functional reserve. This fact is of importance since the secre tion of urea and substances climinated by a similar mechanism depends mainly upon the amount of kidney substance while that of chlorides depends upon the rate of urmary flow

upon the taxe of untary now Theoretically there are three types of renal failure corresponding to the primary involvement of one of these reserve factors. The most scrious is a diminution in the number of renal units. Renal failure dependent upon the pressure stimulus and the tone of the secretory units may be temporary and ame-

nable to treatment

As caffein increases the action of the glomeruh the use of this drug as a test might give some indication of the magnitude of the renal reserve power

The use of urea or phenol red is advisable as a test in cases of renal disturbances when their elimination under similar conditions by the normal kidney can be used for comparison and will indicate the reserve of the kidney

Figure HESS WD

Boeckel A Two Cases of Renal Tuberculosis with Closed Lesions Shown by Pyelography (Deuv cas de tuberculose rénale avec lésions eveluer révélées par la pyélographie) J d'arol midi et chir 1914 xviu 343

The first case reported by the author was that of a woman who entered the benjusti on account of a staphylonoccus pennephinte abscess. Operation was a staphylonoccus pennephinte abscess. Operation was considered in the construction of the staphylonoccus of a fistual. Polography then showed absence of the upper cabs, suggesting actius on the region of this cally. Nephinectomy venfied this theory. The hidney abowed several activities in the upper role be larger with the cutties that the construction of the construction.

pelvis The exclusion of the diseased part of the kidney was complete

In the second ca e the exclusion was in the proeas of development. The patient was a man thirty four years of age who had suffered from intesscystitis with pyuna for about three year. Dun g the past four months the kidney and bladder pus had stopped and the urne had become clearer

Transmitton showed definite tuberculous of the right kidney with pus and bacilly but a behavior of this kidner, as a very good it is probable table leasons of this kidner as a very good it is probable table leasons were slight and recent. The left kidner was a deficient tuberculous or a femiliar tuberculous or a deficient tuberculous or a femiliar tuberculous of the left kidney were undergoing exclusion as there was no pyuna and the middle and lover cally selection in the probability of the probability

Hunt V C The Method of Metastasis of Papillary Epithelioma of the Renal Pelyis Surg Clin V Am 2020 is 851

The pathologuise of the Visy of Chue his proped all kidney necolosms into lower groups much hypernephromata, carcinomatic egithelomata and sareomata Of these tumors all of which are high melions as the result of the control of the result of the res

In a review of the cases of primary papillary pithelioms of the renal pelvis observed at the Clime it was found that bladder metastasis occurred in two thirds being present either at the initial cystoscopic examination or following nephrectomy or nephrectomy with partial ureterectomy. As the ureter was found anyolved on numerous occasions partial ureterectoms was performed when the diagnosis of papillary epithelioms was made previous to or at the time of operation Nephrectomy with partial ureterectomy is sufficient for the other manguant tumors of the kidney, but was found to he insufficient in cases of papillary epithelioma even when the ureter was removed at the base of the bladder Expenence has taught that the intra mural portion of the ureter must be removed and that when the mucous membrane adjacent to the ureteral orafice is involved resection of the bladder wall I cm beyond the area of extension is necessary Up to the present time no recurrence has developed in cases in which this technique was employed

Pack G T and Buzzanca R Experimental Production of Epit helial Hyperplasia of the Renal Pelvis Am J Surg 1929 VII 221

The authors introduced rough Sterile pebbles into the pelvis of the left Lidney of a series of rabbits to observe the effect of the presence of these stones on the renal epithelium. The animals were sacrificed after periods varying in length up to one hundred

seventi seven dava

In 50 per cent of the calculous pelves some degree of epithelial hyperplasia could be seen microscopa cally In the cases of three rabbits definite papallo matous hyperplasia occurred. The degree of change in the renal epithehum was directly proportional to the length of time the pebbles were in the Lidrer

The authors conclude that hyperplasis of the transitional epithelium of the reral pelvis is a fre quent and early response to the pre-ence of renaf stones Occasionally benign villous papillomata of the repai pelvis follow tentation by renal stones They occur later than the more frequent simple hyperplasia Urinary stasis is suggested as one of the factor, involved in the genesis of tumors in the HEYRY L SANFORD M D renal pelvis

Gruber C. M. The Ureterovesical Value J L'est 1020 XXII 375

Gruber states that reflux of uruse from the bladder into the uteter is readily caused in experimental animals and may occur in man and in dogs when the ureteral orifices are injured. Under normal conditions the oblique passage of the ureter through the bladder wall serves as a sphincier to prevent it In the normal bladder of man and the cat dog put and monkey reflux does not occur unless the pres sure is excessive and the volume of fluid exceeds that normally found in the bladder. In the rabbit the fibers which loop over the urethral orance from Bell's muscle are poorly developed or missing

In the author's experiments destruction of the intravesical ureter permitted reflux of fluid from the bladder to the ureter in all eases except one Over dilatation of Bell a muscle pulled the preterovencal valve toward the urethra and bladder wall and opened the urethral sphincter ELECEN HESS M D

BLADDER URETHRA AND PENIS

Temkin I Tumora of the Urinary Bladder (Harn blasengeschwuelele) 1 erhandl & Aong Russ Urol Leningrad 1927

Of 150 tumors of the unpary bladder which were seen in the urological clinic of the University of Moscow 138 occurred in males. All were of an epithelial character. In 13 cases the appearance of the neoplasm had been preceded by a long continued local affection. In a cases there was a bladder stone in 3 cases a urethral stricture with secondary evata ti in 2 cases trauma to the bladder, in 1 case prostatitis and in a case an ulcer at the site of the Three of the patients were subsequent tumor anilin workers Heredity was a factor in so cases (6 66 per cent) In 1 case there was a simultaneous tumor elsewhere (carcinoma of the stomach)

In 40 cases the tumor was in the region of the ostia in 34 cases in the trigone and fundus in 32 cases in the neck of the bladder in 38 cases in the

lateral wall and in 22 cases, in the upper wall single tumor occurred in roi cases double tumors in 17 and multiple growths in 27 The number in c cases is not recorded Multiple papillomata occurred in 18 per cent of the cases

According to the usual classification 55 of the peoplasms were benign and 66 were malignant. The nature of 20 was undetermined Several clinically betten tumors were shown on histological examina tion to be cancers. In a case there was toalignant deceneration of a tumor which had been benign for eighteen years Recurrences had a more malignant

course than primary tumors In the majority of the cases hamatuma was the first sign. In 7 cases it was absent macroscopically and in 2 it was absent microscopically Wide spread metastases were not observed. In some cases there was involvement of the retroperitoneal lymph glands. The low incidence of metastasis and the late development of cacheria are explained by the relatively poor lymph yessel supply of the bladder E Bayber Voter (Z)

Areuzenburg Helfer Fedorov Hagen Torn and Others Discussion on Tumors of the Bladder (Aussprache sum Hauptthema Geschwielste der Harnblase) berhandl d. Kong Russ Urol Len 8 of herser

KREUZEVBURG (Marinpol) said that he had ob tamed no diagnostic aid from the Botelho test

HELPER (Liev) reported that the Botelho test was done on or8 patients at the Medical Clinic of kiev Of 242 cases of carcinoma it was not tive in 00 5 per cent and of 676 cases of non carcinomatous conditions it was positive in 14 per cent. In the urological division of the same institution it was positive in more than half the cases of carcinoma firmatura and pyuria do not influence the result

FEDOROV (Leningrad) reported that partial re section of the unnary bladder was followed by re currence in from 80 to 85 per cent of the cases and gave good results only when the bladder wall alone was involved. When the lesion is situated in the trigone or the neck of the bladder total extrepation is absolutely necessary. The end results of radium treatment are not yet known In extirpation of the bladder in women the operation may be facilitated by previous dissection of the urethra through the vagina and its ligation and invagination into the bladder Early diagnosis and operation are the chief requisites for success

HAGEN TORN (Leningrad) stated that he is not sat ished with the reported results of endovesical treat ment and emphasized the good results of operative treatment. In cases of malignant tumors he has found the extraperatoneal exterpation of the bladder according to the Fedorov method of great value

ILITYSKIJ (Mo cow) reported that he had seen good results in 40 cases treated by electrocoagulation. He does not approve of chemical coagulation (19 cases) At autopsy in 12 cases of carcinoma he found the cause of death to be sepsis septic pneumonia

any of sement of the prevenical tissues and metastases from prostatic involvement VASCEVIC (Moscow) proposed that every person

forty years of age should be examined cystoscopically morder that bladder tumors may be discovered early He has seen no good results from partial resection ALAPIN (Charkon) advised the use of 10 per cent resorcin to prevent dissemination of the tumor cells

during operation

SMITTEN advocated a two stage transplantation of the u cters

MARTYNOV (Moscow) reported a case in which extirpation of the bladder was followed by freedom

from recurrence for two years MILCHADZE (Tulis) stated that of 20 cases treated by electrocoagulation good results were obtained in 15 SOLOLON (Moscow) and CHARANOV (Moscow)

each reported a successful extrepation of the bladder VASILIEV (Leningrad) recommended electroco agulation for benign and transitional forms of lumor MURTICIANC (Morcow) stated that he has oh

tained better results from chemical coagulation with collargol than with trichloracetic acid

CHOLCOV (Leningrad) concluded on the basis of his own experience that when electrocoagulation is employed all papillomata should be considered

LEZYER reported on a cases of bladder externation under lumbar anasthesia in which good results were 1 Bannes Voice (2) obtained

liermann II B Metastatic Tumora of the Url nary Bladdee Originating from Carcinomata of the Gastro Intestinal Iract & Urol 1919 XXII 257

The author reports a case in which five years after gastrie resection an ulcerated lesson appeared on the lesser curvature of the stomach near the line of the resection and the posterior wall of the urmary bladder was found to be markedly infiltrated Micro scople examination showed that both lesions were Examination of the lumbar adenocarcinomata Imphatic gland reverled no indication that the carcinoma traveled by the lymphatic route

In ten cases of carcinoma of the gastro-intestinal tract in the male which are reported in the literature metastasis to the urinary bladder occurred once. and in twelve cases of Krukenberg tumors it occurred six times The metastasis of tumors of the brukenberg type to the ovary and bladder is believed to take place in a retrograde manner by way of the lymphatics

The local functional disturbances in the bladder caused by a metastana depend upon the portion of ELYER HESS M D the bladder that is involved

Hinman F The Surgery of Tumors of the Bladder California & West Med 1929 XXX 110

Hinman says that the latest epochal advance in the surgical treatment of tumors of the bladder was Beer's introduction of fulguration in 1910 nevest treatment irradiation, has been overrated as the result of hopeful enthusiasm. Progress in the cure of malignancy of the bladder by means of it has now reached a deadline

In the treatment of tumors of the bladder surgery must always he considered in close relationship to both fulguration and irradiation All bl. dder tumos are potentially malignant The degree of malignanty depends largely on how extensively the neoplasm infiltrates the bladder wall

In the diagnosis several cystoscopic examinations may be necessary The eystoscope will show whether the tumor as papillary pedunculated or sessle Ulceration and infiltration are rehable indications

of malignancy Primary adenocarcinoma of the bladder is rare

The secondary form is pedunculated

Human subjects all papillary villous growths to fulguration. In cases of malignant papilloms and papellary carcinoma fulguration often results in cure It may fail to effect a cure if there is marked infiltration, and will probably fail unless it is suc cessful at the first application. If the tumor is resectable surgery should be resorted to next even if ureteral transplantation will be necessary. If it is not resectable radium or transvesical darbetmy should be used If the tumor is flat and infiltrating and shows a crater ulcer fulguration will not avail and radium irradiation or surgery is indicated

Surgery of the bladder is described as radical therapeutic, or pallistive Radical surgery is com plete removal of the tumor or even of the bladder with transplantation of the ureters Therapeute surgery is done for the open treatment of tumors Palliative surgery is performed for the relief of

urinary obstruction

The high mortality of bladder surgers is due not only to the condition for which the surgery is done but also to defects inherent in the operation The surgical trauma and difficulty of drainage are sometimes as great in cystotomy as in resection An important factor militating against recovery is oreteral abnormality. In practically all cases of postoperative death py oureter, py onephrosis of pye loncohritis is lound

The author has no faith in radium treatment of deeply infiltrating tumors as none of his patients subjected to it for such growths survived for longer than a year He believes that when fulguration fails resection or cystectomy should be done

The operative risk of resection in cases of bladder tumors is greatly reduced by careful preparation of the patient measures to assure ureteral patency and climinate infection and dependent drainage BENJAMIN F ROLLER M D

Campbell M F Stricture of the Male Urethra The Prognosis as Based upon a Study of 1244
Cases | Fork State J M 1929 xxx 1135

The prognosis of stricture of the male urethra depends upon the character of the inflammator) scar and the thoroughness of treatment intelligent use of steel sounds will cure the condition in a few cases and will control it in all In the preone of premietaly infection impassable structures, or structures which do not respond properly to the use of sounds operative procedures are necessary it should be impressed upon the patient subjected to urethrotomy that the operation is only a step toward the cure Directal distations must be begon and the properly of the present of the pretonal properly of the pretonal properly of the pretonal properly of the pretonal properly of the present that sounds be passed two or three times a vera! Op latents not treated in this way a threat will require re-operation, within ten years

In the determination of the prognosis in a given case the renal function and the presence or absence of renal complications must be taken into account

Martin Larel The Lare Result of a Urethroplasty 10 Cm in Estern & After Traumatic Rupuire of a Constricted Urethra (Résultat élogaé d'une un troplastie sur une longueur de 10 centralites après rupture traumatique d'un urêtre tétrect) J d'und m'd et der 10 a xvvi 30.

The case reported was that of a man fifty four years of age who fell astride an iron beam. A few hours later during the night the scrotum swelled and a few drops of blood were passed at the hegin ning and end of meturition. The next day the patient had a chill and fever.

The author made a diagnoss of rupture of the permeduplar part of the urethra with scate permeduplar in the distribution of the permeduplar part of the urethra with scate permeduplar to distribution of the permeduplar to the permeduplar to the permeduplar to an admitted to the bospital with creative aparters of the scrottum and ordern of the permeum Operation showed a perforation on the permeum Operation showed a perforation on the might lateral surface of the built about 6 cm above the cul de six. This was evidently the six of the rupture. There was also a stricture of the urethra which soulf admit only a finform bouge. The bouges was stopped combletts 1 cm above the perforation.

was supper computers) 1 cm anove up eptoration. After the signs of infection had disappeared the author made persistent attempts to dilate the stricture but was unaucressful. The stricture seemed to be in the form of a sold cult rather than a series of consecutive maps as is generally the case. Under those the maps are the series of the

In this case the indication for urethroplasty was absolute because of the impossibility of dilating the urethra. A medicologic question was moviled since while the rupture was certainly caused by the in dustrial accelent the patient had an old genorrheral stricture which involved the danger of permerchirits

at any time. Accertheless he had been able to work up to the time of the accident. The insurance company granted him a pension of 15 per cent of his wages.

The author concludes that in cases of stricture that cannot be dilated urethrostomy is the treat ment of choice, and that if necessary this should be followed by a plastic reconstruction of the urethra

GENITAL ORGANS

Wildbolz II N The Technique of Perincal Pros tatectomy and Ita Clinical Results (Die Technider perincalen Prostatektomie und ihre klinischen i fiologi) i Technidi d deutsch Gestlisch f Urei 1921 p. 115

The author recommends permeal prostatectomy on the basis of 341 cases emphasizing especially the importance of preserving the external sphincter muscle After cutting of the recto urethral muscle the region of the pars membranacea and the apex of the prostate is subjected to minimal disturbance The posterior surface of the prostate is exposed at a point 1 or 2 cm from the apex and then the fascia of Denonvillier and the so called capsule of the prostate are split 1 or 2 cm toward the bladder from the anex From this incision the adenoma at its lower pole can be easily shelled out intracabsularly and so far loosened from the urethra that a transverse incision made close against the lower edge of the loosened adenoma opens the urethra hehind the colliculus 1 e . bladdernards from it The intact part of the pars prostatica urethræ then retracts backward and is further protected

The internal sphincter is more difficult to protect but may be easily re united when the stitches are placed to unite the stump of the urethra to the neck of the bladder. The operation is completed by saving the sphit capsule of the prostate lengthwise over the urethra with interrupted sutures and placing a thin permisel inblier drain through the incomo most the capsule but not into the bladder incomo most the capsule but not into the bladder until the third or fourth week. After its remarkant that the constitution of the capsule should be a supported to the cases and longer than four months in 2 per cent of the cases and longer than four months in 2 per cent.

The second danger of the operation is inadvertent opening of the rectum. This occurred in 9 of the cases reviewed. In 4 the fistual soon closed again spontaneously and in 4 it was closed by operation. In z case death occurred from an intercurrent disease.

The danger of hamorrhage is slight. In 1 case of schorous cystitis a septic hamorrhage occurred

Attention is called to the rapidity of healing. In 74 per cent of the cases the wound was closed at the end of fourteen days and in 17 per cent after three weeks. In only 0 per cent did healing require longer than three weeks. In 7 per cent it required four weeks and in 2 per cent longer than four weeks.

mortality was 6 per cent whereas in 112 suprapubic

operations it was 15 per cent

In the discussion of this report Volucia and a bat his method although different is also a permeal procedure. Of the sphincters, he holds the internus to be of greater importance since it mandatans continence also during sleep. He stated that a circular section of the internus may be excised but that the sphincter should not be mangled or lacerated so that the ends can no longer be found.

I REUDENBERG stated that the perincal route is the best one for carcinoma of the prostate but for cases of hypertrophy he prefers the suprapulue route. He agreed with Wildbolz that the externus is the more

important muscle

Lonsiev emphasized the preservation of the externis in the Young operation and recommended the tongue-shaped incinion in the posterior lobe of the prostite which gives excilent exposure (poperations).

MISCELLANEOUS

Bade II J. Hereditary Congenital Anomalies of the Genito Utinary Organs. Im J. Surg. 1920 Vii. 211

Bagg reports the findings of necropsies performed during a period of six years on 5 600 animals in an

nvestigation of the susceptibility of Is I greatembryoner tissues and the gonads to the effect of roenigen ray irradiation. One thousand and fivseven of the saminals showed kather-dects I as a soo of the latter one or both kidneys were man may at bitth and in 45 one or both kidneys were found to be hydronephrotic soon after birth In 17 one or both relates were abnormal. These annium one or both relates were abnormal. These cannium of the property of the control annuals.

The same group of rats showed ee and humb defects associated with localized disturbances in the circulation. Bage concludes that there was a temporary stage of bymphatic stars which was son followed by a moderate or an extensive extraviation of blood with the formation of a well define humatoma and that the time of appearance and the extent of the humatoma determined the tyre and degree of the defect. The ladacy and tessife defects may have been due to a similar process.

Bagg beheves that his findings may have a chinch application indicating the need of caution in the stradation of women over the region of the oversed during the child bearing period and of men over the region of the gonads when the product of the gonads with the product of the gonads when the product of the gonads when the product of the gonads.

may enter into a later pregnancy

SURGERY OF THE BONES, JOINTS, MUSCLES, TENDONS

CONDITIONS OF THE BONES, JOINTS MUSCLES, TENDONS, ETC

Geschickter C F and Copeland M M Osteltis Fibrosa and Giant Cell Tumor trek Surg

1929 XIX 169

This report is based on a study of over 400 cases of tumors in the gaint cell group. In the authors opin on ostettis fibrosa and grant cell tumor at ephases of bone repair—the first a healing reaction and the second an active vasculaturing phase. In the former there is a tendency toward spontaneous re-ossification or healing and in the latter a process feating of the second and the second and the second and the process of the second pro

BONE CYSTS

The solitary home exist is a form of osterits fibrosa found usually in the shafts of the long bones of young adults. In the material studied there were 175 cases of bone custs. The average age of the patients was between ten and fifteen years. This age incidence is one of the outstanding clinical features of the dis-More noteworthy than the age incidence is the location of the tumors. In the great majority of cases the lesions are confined to the upper shaft of the femur the humerus or the tihra. At the age and in the location in which the tumors occur there is relationship to an unossified epiphyseal line. The bone involved is an area of new bone in a meta physeal region Therefore the pathological process appears to be related to new bone formation In the histological study the authors bave traced such a relationship Cases in which the solitary bone cost is found in the region of the midshaft are explained by the larger duration of the clinical symptoms

The patient often comes under observation be cause of trauma with pathological fracture. The clinical features of bone cost are very mild. In the

majority of cases pain is slight

A ray examination revealed the ununited epoply as near the diseased area the metaphyseal location of the lesion and a central area of bone casting little or no shadow. About the area of bone casting little or no shadow. About the area of bone casting little or no shadow about the area of bone which pathological fracture has occurred the margins of the fracture show new bone formation cast as members, and the shadow Such a fracture tends to bead in a deate shadow. Such as fracture tends to bead on the shadow Such as fracture tends to be shadow. Such as fracture tends to be shadow Such as fracture tends to be shadow. Such as fracture tends to be shadow.

The bone overlying the cyst varies in thickness the thicker shell being found in cases of long stand

mg Beneath the bone shell a connective tissue lining and fluid or solid fibrous tissue may be found

The contents of the cavity give no clue to an area of new cartilagenous bone formation such as the clim call features of age incidence and location would lead one to expect. In the shell of bone overlying the cavity there is frequently a thickness and firmness extending into the fibrous liming which suggests the formation of new bone but the location indicates that it is proceeding from the cortical region of the shaft staber than from a central metaphyseal location. Except for this cortical reaction the gross specimens suggest a process of bone destruction arather than a process of new bone formation.

Microscopic examination usually shows no evidence of bone destruction which would explain the cavity formation. Most of the tissue composing the cells and fibroblaits with much clear intercellular substance. About the cyst wall there is a condensation of connective tissue to form a fibrous jisting Becond the immig layer fibroblaits are laying down intercellular substance, with the formation of octeoblasts and produced prediction of new bone of the condition of the condition of the contraction of the condition of the condition of the contraction of the condition of the condition of the contraction of the condition of the condition of the contraction of the condition of the condit

Frequently an area with fresh blood all have a muture of round and spandle cells an the nupbor hood or proximal to the new vessel a spranking of large gant cells of the epuls type may be seen fine large gant cells of the epuls type may be seen flowed cells as very agnificant since pant cells are associated only with new vessels and fresh himmor trages unstead of with old blood within the exy's it is therefore probable that the order of events is the second of the cells are should be supported by the blood vessels and bemorrhage (2) absorption of the bemorrhage with cyst formation and (3) himng of the cyst by fibrous tissue which is gradually transformed into bordered in the second of the cyst by fibrous tissue which is gradually transformed into bordered.

Bone of cartilaginous origin such as is seen in

osteogeme sarcoma has not been observed The authors conclude that osterus fibrosa is not an

inflammatory reaction indisaction issue or bone but a process of repair constitution of an entire defense reaction of cancellous bone cortical town of the nature of the naviding lesson. In most action is found around an exacuted area of bone destruction. The reparative nature of the treations is evidence chinactly by the benign course of the lesson and its tendency toward spontaneous bening. It appears that the process soon becomes arrested or often progresses without noteworthy symptoms for other progresses without noteworthy symptoms for the progresses without not symptoms for the progresses with the progresses without not symptom for the p

exploration is done the bone destructive phase is practically always complete and only the healing phase is encountered

CLANT-CELL TEMOR

Examination of the polycystic and gunt cell variants of osterits fibrosa has led the authors to the conclusion that gunt cell tumor tissue is the earliest phase in the pathological process of bone cyst

Gant cell tumor is a piogressae hone-distrongua jesion occurring in the epiphysis where osteopens pro-ceds until late in life. In ap per cent of the cases to occurs dumpt the third decade of the. Its most common estes are the epiphysis of the lower end of the femur and rudus and the upper part of the that Although the giant cell tumor is typically bengin recurrence developed in 32 of 226 cases resuched. The principles are a history of truims pain tumor, and fricture

The postigenogram emphasizes the destructure autor of the condition. The fesson is smallly assum metrically located in the epiphysis. The bone destruction begins in a subcortical focation at one side of the epiphysis and works its way toward a more central location at the expense of circuctions bone. The bony shell is extremely thut and in 60 per cent of the cases studied it was perforated. The tumor is traversed by traberuly, and as it becomes layer first the trabecture and then the bony shell dis

appears

(rossly, the tumor mass is usually hamorrhagic It is like an old bruise ranging in color from red to black At operation it bleeds when touched, oozing like a sponge Because of its asymmetrical position it borders upon cortical bone on its outer side in ently lesions. Inwardly cancellous bone is infiltrated I very where about the tumor normal struc tures are endeasoring to stem the invasion. The reactive tissue shows a histological structure typical of the fibro-ostosis seen in the wall of bone cysts Indeed the microscopic structure of the giant cell tumor differs from that of bone cast not in kind but only in degree. In the former there is more giant cell tumor tissue and less fibro ostosis, whereas in the bone cast the fibrous proliferation and new bone con struction predominate and there is little or no rem nant of grant cell tumor tissue

Histologically the tumor mass proper of the by material grant cell tumor is composed essentially of multimucleated junt cells embedded in a mass of smaller round cells. There are usually over 30 giant cells to the field and cach gaint cell contains from 15 to 20 maces. An outstanding presultant of the typical guant cells are embedded. In this strong mounted is an embedded in the strong mounted to the strong the strong that the strong the strong that the strong the strong that the strong that the strong the strong that th

Hæmorrhage is a conspicuous feature of mot-orb tumor Red blood cells in a well presen ed state in filtrate the tumor The typical grant cell tuper is hæmotrhagic and vascular Areas of organisme hamorrhage are frequent Bordering upon these is loosed ordematous tissue intermingled with areas of ostentis fibrosa The spindle cells conspicuous about the new bone spicules are found also elsewhere in the tumor among the round cells of the strong Time fibrils surrounding these spindle cells indicate the c fibroblastic tendencies and identify them with the type of cells seen in osterus fibrosa. When soudle ceffs Predominate in the stroma of the gant-cell tumor they indicate a healing process and mark the section as a variant (the spindle cell or osteitis fibrosa variant of the giant cell tumor) This im portant group of hybrid tumors demonstrates a transitional phase between grant cell tumor and LYTHOSY F SALA MD ostestu fibro a

Nové Josserand and Pouzet The Late Effects of Acute Arthritis in the Child (Resultate élocots de l'arthrite agué chez l'enfant). I son chr. 19.0

This report is based on fifty cases of non tuber culous arthritis of the hip occurring in children ander twelve years of agr. In some of the cases the wo duton was supportative and in others; it was sup-Most of the patients were under two years of agr. The authors state that arthritis may leave a viril of lessons but before the age of mine years analysistic is almost never observed.

Sublusations are characterised by adaptation of the head of the femur to a newly formed licert at the fevel of the upper border of the accelabulum. Fame toon is good and a roenigenogram shows merely slight upward and outward displacement of the femur. This lesson which is the least frequently observed, is believed to be associated with a striker.

benign infection

In supportative archites an early independent per a primary bone destruction. The epiphy as disappear and the upper end of the dasphy as becomes adapted to the acetabulum. A nearther to stores but it is pour and causes a marked lamp. Or causanally, since a period of jeers a new center of ossistant contraining at the site of the destroy of period of the contraining the contraining

lione destruction may be as octated also with complete luxation. In such cases a nearthrosssometimes forms, but often the kimur floats without apparent means of support. Function is unsatefactory but there is good capacity for walking.

In toother group of cases the lead and need of the femur disappear entirely and the femur is reduced to a trangit shaft. Occasionally, the femure mains sufficiently attached to the pelvis at the activation to permit a fair degree of functional as a rule operative stabilization of the hip is necessary. Simple Justions occur without primary boar

changes but alterations of the joint surfaces follow

later as a result of adaptation. The arthritis is In older children un usually non suppurative treated simple luxition may result in ankylosis but as a rule a rather imperfect nearthrosis forms with the femur in adduction Except for an aukward limp function is good By reduction perfect res-toration of function may be obtained Pour results in older children may be caused by epiphy seal sen aration or a fracture of the femur produced by efforts at reduction

The treatment of these lesions varies The roentgenogram is of little telp in determining whether or not the epiphysis is destroyed. The epiphysis may be decalcined and will re appear later Simple fuxation should be reduced by simple traction during the acute phase and by careful manipulation during the first months of convalearence. In the cases of older children an attempt at reduction undertaken after six months usually results in fracture

Licious attirudes should always be combated When destruction has occurred measures to prevent them usually improve the adaptation of the bones Old distocations are usually quite solid and require no treatment When the destruction of bone is ertensive a buttressing operation should be done

Slight bony destruction without luration gives rise to various functional disturbances. These are best treated by the application of an apparatus to be worn at night which maintains the member in abduction and internal rotation. The treatment should be begun early and continued for a long time to facilitate the readaptation of the softened head of the femur to the acetabulum ALBERT F DE (BOAT M D

Lande M. The Importance of Tension in Assumbly and Receneration of Muscle (Die Redeutung des Spannung fuer die Muskelatrophie und Muskelre generation) Zirchr f orthog Chir 1929 li 230

It is well known that the normal tension is the de casive factor in the function of muscle. Heretofore the author assumed that the weak functioning of the call muscles after tenotoms in which the tendon was under slight tension was due to mechanical causes a part of the power of the muscle being used up for tension of the tendon. However in experiments pro animals he has found that decreased tension of the tendon may lead to marked atrophy of the corre sponding muscle Equally dangerous to too great ten sion Stoffel states that under marked tension the excretion of carbon dioxide by the muscle is increased and contraction under electrical stimulation proceeds slowly and tardily When the tension is still for ther increased atrophy begins

In investigations regarding the extent of muscle regeneration under various degrees of tension Lange found that marked regeneration with complete replacement occurs only when the tension is normal When the tension is too slight or too great regeneration does not occur and degeneration be gins. In rabbits regeneration resulted in complete

replacement of balf of the removed cali musculature DEUS (Z) in sixteen weeks

Gauzele Muscle Atrophy as a Result of the Wear ine of Corsets and Bandages (Die Muskel atrophie als Folge des Korsett und Bandagentra cens) Zische f erthop Chir 1929 lt, 223

In myestications regarding the occurrence of mus de atrophy from the wearing of apparatus belts, handages etc, the author found no case of irrepa rable atronby of the legs caused by plaster bandages Children cured of dislocation of the hip usually have no atrophy after three years whereas those who have not been treated show permanent atrophy The bandages used by the author and the Hessing annaratus have not caused atrophy. On the contrary they have strengthened the musculature in naralysis since in many cases the paralyzed extrem its has been enabled to meet functional demands up on it only by the application of suitable bandages

The findings were similar with regard to the ef feets of a corset worn for the correction of scoliosis Muscular atroobs was always most marked in cases of severe scoliosis. It is therefore not the corset which produces the atrophy but the scolosis itself Every measure even the wearing of a corset, which inhibits the development of the scolingis inhibits the development of atrophy, and every measure which decreases the scoliosis also decreases the atrophy of the muscles DELS (L)

Cordon D Observations on Impaired Shoulder Function and Methods of Treatment Ann SHIFE 1020 IC 341

This article is a resume of the principles of symptomatic treatment of cases of disability of the shoulder joint in which the diagnosis is uncertain

Gordon emphasizes the importance of treating all shoulder conditions with the arm in abduction and under traction This is indicated because changes of the joint itself may lead to ankylosis and because the shoulder group of muscles must be considered When the movement of the shoulder is restricted by permanent changes abduction is the position of choice for function When the disability is due to extra articular factors abduction and traction are necessary to prevent the development of contraction of the adductor muscles FLYEN J BERAHEISER M D

Patel Primary Tuberculosis of the Costal Cartilages (Tuberculose primitive des cartilages costaux) Lyon chir 1929 KTV1 395

Patel reports the case of a woman twenty five sears of age who developed a typical cold abscess on the antero inferior aspect of the thorax immediately to the right of the sternum At operation the center of the abscess was found to be occupied by the common cartilage of the sixth seventh, and eighth nb The lesions of the cartilage were analogous to those of tuberculous ostertis Resection of the car thage was followed by a cure that has lasted several ALBERT F DE GROAT M D

Gunther L and Sampson J J The Radicular Syndrome in Hypertrophic Osteo Arthritis of the Spine Root Pain and its Differentiation from Heart Pain J Am 31 Ats 1709 zem 514

The authors discuss the radicular symptoms in hypertrophic arthritis of the upper part of the dorsal spine on the basis of fifty cases. They state that precordial pain of nerve root origin which is com monly associated with hypertrophic arthritis of the spine, is distinguished by a close relation to move ment of the spine, such as occurs in bending raising the head on awakening getting out of bed sitting in one place for any considerable length of time and lifting. It is delineated in broad belt like zones along well defined spinal rout dermatomes and is constantly present in back of the chest as well as over the precordium Associated sensory changes can be demonstrated which are bilateral distributed ac cording to spinal root zones both in front and in back and usually correspond to the entire distribution of the roots in the area of subjective sen sory disturbances

I recordial pain of nerve root origin is releved by removal of the arguavating mechanical factors by the wearing of a mechanical appliance such as a corect or brace and by the use of a resistant such for sleeping such as is obtained by planing boards under the mattires. It does not respond to associal under the matters it does not respond to associal to the responding to the property of the control the responding to the property of the second of the potter of the potter of the property disease the not dominate the picture.

case no not dominate the picture

George C Harrie M D

Hitrach E. F. und Ryerson E. W. Necrosta of the Distal Epiphysis of the Right Femus. J. im 11 Ass. 1929, von 6,0

The authors review the literature on epiphysesi necrosis and report a case. Imong those who have written on the condition are Avhausen. Sudeck kienbook. Hofmann Looser Schmoff and Askana 29. Arhausen expressed the belief that epiphyseal necroses are anarmic infarcts of the bone caused by mycotic embolic occlusion of the vessels.

mycotic embolic occlusion of the sessels. The pitient whose case is reported by the authors was first examined by Rverson in 1913, when he was twenty seven sears of age. He gave a history of pain and intermittent limitation of motion in the right knee for five years and had been under the cate of

another orthopedic surgeon

An area of rarefaction in the lower end of the
right femur was first disclosed by roentgenograms
in 1921 and thereafter continued to increase in
size

It operation performed in 1917 the knee joint was resected and a long tibul graft was inserted into the medullary cruity of both the tibus and the femur. The patient made an uneventful recovery. The bone fusion healed completely in a few months A definite diagnosis had never been established.

A definite diagnosis had never been established.
The conditions considered by various orthopedic surgeons up to the time of operation were tuber culosis cyst gonococcus infection and sarcoma.

Histological examination of the specimen revailed marked necrosis of the bone trabecule and necroit specials of bone embedded in a myxomatous shous atroma. No bacteria were found.

The outstanding clinical features of the case were the insidious onset of the condition and the log period of time during which a disease of the fower and of the Temur accompanied by inflammator, changes of the soft itsues was known to east. The evolting cause of the lesion and the factors responsible for its continuation remain uncertain.

The case history is supplemented by mentgenograms taken before the operation and by photomicrographs Servey Spena, MD

Raszeja Some Problems in the Physiology of the Kniee Johnt (Einige Probleme aus der Physiologie des Kniegelenks) Chir Vorr Ruchu 1919 u. 21

According to the experimental recorption and the fate of exulates of blood in joints the testiption of solutions and colloidal emissions in joint cavities takes place very alonly. Resorption occurs according to the laws of simple diffusion. The destinationable of the molecules is of no importance in applicit or course. Intra articular exudates of blood and provided in the control of the destination of the molecules is of no importance in applicit or course. Intra articular exudates of blood and the course of the co

are resorbed alowly Coagulation of blood also takes place in the article far cavity The nature of the coagulation varies and is dependent upon whether the joint was in a state of rest or in motion at the time of the appearance of the exudate A congulation inhibiting ferment is not demonstrable in the synovia Among other fer ments the bone catalyzing ferment of Bier and the cartilage cataly zing ferment of Hempel are men tioned The author cites also his findings regarding lipolytic properties of joint fluid The question as to whether these ferments originate in the blood or are organospecific has not yet been answered The so called synovial endothelium the mesothelium of American investigators is formed by squamous connective tissue cells occas onally arranged in a single layer. In the very vascular subsynovial layer there are round darkly staining mucin forming cells Up to the present time the influence exerted by the nervous system upon the formation of synovial mucin and the osmotic processes has been but little

investigated The author reviews comparative chemical and physicochemical studies of plasma and joint fluid some of which were made by American investigators and others of which he made himself He reports the values for residual nitrogen albumin sugar sodium chloride electrical conductivity and hydrogen ion concentration These determinations were made on joint exudates of traumatic and non infectious on gin The diminution in the sugar concentration in the synovial fluid in relation to that in the plasma should be greater in non infectious joint exudates than in tuberculous exudates An increase in the albumin content in the joint fluid (normally from 2 4 to 4 a per cent) is followed by a diminution in the electrical conductivity a diminution of the sodium

chloride content and an increase in the hydrogen ion concentration. The markedly alkaline Ph values of 7 8 to 8 x are paradoutial as empirically the author has found the optimal lipsae action in the synoval fluid to occur at Ph 7 8.

In Rasseja's opinion trauma leads to primary physicochemical changes that is greater permea bility of the capillaries and of the 51 novia for allumin and hydrogen ions. As a result of these changes secondary anatomopathological changes develop

In the second part of the article the author takes up the special prechains of the knee joint is special prechains of the knee joint in the second part of the knee joint in the late is a mared movement consisting in an unrolling a gliding movement and a final grating extension. The unrolling mution takes place in the first phase of the movement in flevion at from 15 to a degree: It sairs runs transversely in the article clift. The forced final grating extension occurs in the vertical plane at the outer sade of the medical condyle of the femur The mixed movement precluin to the knee joint is due to the incongruence of the articular surfaces and also among other causes to the tension of the ligaments.

The crucial ligaments play an important part in the mechanism of the knee journ During flevion they allow the unrolling motion up to only about a objective. In the last phase of the extension the stretched parties are proposed to the extension of the control of the proposed of the extension of the stretched parties are proposed to the control of the threshy tendered possible. In extension with the legrotated integnally the crucial ligaments are pair under marked tension. In both crucial ligaments is is possible to distinguish portions which has defiler and functions. The stiffening of the lines journ in the new which in systamic procuments are partly as national to the crucial ligaments.

The menses because of their elastic properties change their form almost continuously according to the pressure to which they are subjected by the joint surfaces. The median menseurs is less mobile than the lateral menseurs During flerom both menuec change their postions duping backward on the tibual articular surface. On extension they term to their original position. At the same time their during the properties of the pro

Pouzet F Bone Tuberculosis Nezr the knee Joint in Children (La tuberculose osseuse justa anticulaire du genou chez i enfant) Rev d'erihop 1929 xxxv1 297

Juxta articular bone tuberculosis must be studied for each joint separately because of the variation in the action of the epiphyseal cartilage and in the ease of surgical access to the different foci

The author reviews twenty five cases of tuber culosis of bone near the knee. In thirteen the lesson

was in the femur and in twelve in the tibia. In very young children the femur is more often affected than the tihia, and in older children the tibis is more often affected than the femur In twelve of the cases reviewed the lesion was in the metaphysis in ten, it was diaphyso epiphyseal straddling the epiphyseal cartilage and in three it was in the epiphysis Some of the metaphyseal lesions were at a little distance from the epiphyseal cartilage and others directly adjoined it Roentgenograms are reproduced which show the rapidity with which these lessons may move away from the cartilage with growth Diaphyso epiphyseal lesions pre dominated in the femur whereas metaphyseal lesions predominated in the tibia

At operation all of the six diaphyso epiphysed fesions see found to be purelies. Under a thinned or perforated cortex there was a cystic cavity which in three cases contained pus with a sequestium and in the three others contained tissue with fungosities in fave cases the epiphyseal cartilage presented thanger and in their cases the epiphysia was in one case the epiphysis outside a sequestium one case the epiphysis contained a sequestium.

Of the eleven metaphy seal lessons four presented an encysted focus with pus and a sequestrum three presented directly purplet foci and four presented poorly demarcated foci with fungosities or sequestra in the cases in which the epiphyseal cartilage was examined it was never found involved.

Cold abscess was present in eight cases. In two of the three cases of epiphyscal lemons with cold abscess there were encysted foci with an intact epiphyscal cartilage and in the third there was a sequestrum consisting of the entire internal tuberosity of the thira.

Chincalli the onset of the ostetis is characterized by pain or cold abuses or an articular reaction. Eight of the thirteen femoral leuons and two of the twelve tibial leuons in the cases reviewed began aith an articular reaction. At the onset of every case of arthrists reentgenological study is important to distinguish the articular reactions that are symptomatic of ostetist. The later course of the condition is characterized by painful swelling above the one of the one of the ostetists of the condition of the ostetists. The first course the testing is not food abuses and articular reactions, attributar reactions are especially frequent when the lesion is in the fermi for complete healing of the 53 novial lesions correct immobilization of the kine is in eccessary even after operation.

Operation was done in twenty of the twenty five cases reviewed. In fifteen an articular reaction was absent or disappeared. Two patients ded uncured. Three had a secondary artinuts. In the cases of two of these resection was done. Of the fifteen cures fourteen have been permanent. In one case the arthritis recurred after ten years and neces stated resection. Five very young children were treated by immobilization with resultant cure and good function. Of thirteen patients who were examined later for changes in the length of the hone three presented shortening and five showed lengthen

Gunther L and Sampson J J The Radicular Syndrome in Hypertrophic Osteo Arthritis of the Spine Root Pain and its Differentiation from Heart Pain J Am M Ass. 1929 Rest, 514

The nuthors discuss the radicular symptoms in hy pertrophic arthritis of the upper part of the dorsal spine on the basis of fifty cases They state that precordial pain of nerve root origin which is com monly associated with hypertrophic arthritis of the spine is distinguished by a close relation to move ment of the spine such as occurs in bending raising the head on anakening getting out of hed sitting in one place for any considerable length of time, and lifting It is delineated in broad belt like zones along well-defined spinal root dermatomes and is constantly present in back of the chest as well as over the precordium. Associated sensory changes can be demonstrated which are bilateral distributed ac cording to spinal root zones both in front and in back and usually correspond to the entire dis tribution of the roots in the area of subjective sen sory disturbances

Theoretial pain of nerve root organ is releved by temoral of the aggravating mechanical factors by the wearing of a mechanical appliance such as a corect or brace, and by the use of a resistant such corest or brace, and by the use of a resistant such used for sleeping such as in obtained by placing boards under the mattriess. It does not respond to visuodia under the mattriess. It does not respond to visuodia and the associated phenomena of cardiovascular disease of the organical such as the cardiovascular disease of the organical such as the cardiovascular disease of not dominate the picture.

torer C llever MD

illirsch E.F. and Ryerson F.W. Necrosis of the District Epiphysis of the Right Femur. J. im 3f in 1929 scill 6/9

The authors review the literature on epiphyseal necrosis and report a case. Among those who bawtitten on the condition are Arhausen Sudeck Niembock, Hofmann Looser Schmod and Askana 29. Arhausen expressed the belief that epiphyseal necroses are anomic infarcts of the bone caused by mycotic embloic occlusion of the vessels.

The patient whose case is reported by the authors was first examined by Ryerson in 1913 when he was twenty seven years of age. He gave a history of pain and intermittent limitation of motion in the right knee for five years and had been under the care of another orthoroedic surgeon

An area of rarefaction in the lower end of the right femur was first disclosed by roentgenograms in 1921 and thereafter continued to increase in

At operation performed in 102, the knee joint was resected and a long tibial graft was inserted into the medullary cavity of both the tibia and the femur. The patient made an uneventful recovery. The bone fusion healed completely in a few months.

A definite diagnosis had never been established. The conditions considered by various orthopedia, surgeous up to the time of operation were tuber rulosis out gonococcus infection and sarroma Histological examination of the specimen reveiled marked necrosis of the bone trabeculæ and nero a spicules of bone embedded in a myxomatous fibrors stroma. No hacteria were found.

The outstanding clinical features of the case were the insidous onset of the condition and the lost period of time during which a disease of the lowr end of the femur accompanied by inflammator changes of the soft tissues was known to enst. The existing cause of the lesion and the factor reson

sible for its continuation remain uncertain.

The case history is supplemented by roentgeograms taken before the operation and by photomicrographs Smyry Sidera M.D.

Raszeja Some Problems in the Physiology of the Ance Joint (Timge Probleme aus der Physiologi des Amegelenks) Chir Vars Ruchu 1929 2, 11

According to the experimental resoption and the fate of exudates of blood in joints the resoption of solutions and colloidal emiliations in joint extins takes place very alowly. Resoption occurs according to the laws of simple diffusion. The deternal charge of the molecules is of no importance in is rapidity or course. Intra stricular exudates of blood

are resorbed slowly Congulation of blood also takes place in the articu lar cavity The nature of the roagulation varies and is dependent upon whether the joint was in a state of rest or in motion at the time of the appearance of the exudate A coagulation inhibiting ferment is not demonstrable in the synovia Among other fer ments the bone catalyging ferment of Bier and the cartilage-catalyzing ferment of Hempel are men tioned The author cites also his findings regarding lipolytic properties of joint fluid The question as to whether these ferments originate in the blood or are organospecific has not yet been answered. The so called sy novial endothelium the mesothelium of American investigators is formed by squamous connective tissue cells occasionally arranged in a single layer. In the very vascular subsynovial layer there are round darkly staining mucin forming cells Up to the present time the influence exerted by the peryous system upon the formation of synovial mucin and the osmotic processes has been but little

intestigated
The author reviews comparative themical and
physicochemical studies of plasma and pint did
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particularly the properties of the properties of the properties
particularly the properties of the properties of the properties
point excitates of traumstate and non infections of
gra. The diministion in the sugar concentration
the symoust fluid in relation to that in activate
should be greater in an older. An increase in the
albumin content in the joint fluid (sormally from
a 4 to 4 percent) is followed by a diministion of
the electrical conductivity a diministion of the
electrical conductivity.

tressing of the hip joints and astragalectoms or amoutation above the ankle joints

In the cases of children, operation is performed whenever sufficient damage has been done to the joint to make movement incompatible with permanent safety from relapses and the patient is more than ten vers of age. Exceptions are cases in which there is little granulomatous tissue and the joint surfaces are well adapted

The author advocates extra articular re-inforce ment (Verrall) of the sacro iliac joint extra articular arthrodesis or excision of the hip excision and arthrodesis of the knee astragalectomy in local used tuberculosis of the astragalus and excision and

arthrodesis of the shoulder

In the cases of tuberculosis of the hip which are reviewed good results were obtained in adults but in children there were as many laulure's as good results. In the cases of tuberculosis of the lane adults good local results were obtained, but the end results were poor hecause now leapons developed end results were poor hecause now leapons developed and results were poor he cases now leapons developed good also in two cases of satragalectomy performed on adults. In a case of excision of the shoulder and a case of excision of the elbow satisfactory results were obtained.

Lertche R and De Girardier J Immediate Surgical Treatment for Spran of the Knee Joint with a Bony Lesion That Is visible Rentatenographically or May Be Determined Ginically (Traitenent chrurgaral immédiat des entores du genou ace l'esson ossente radiograph a quement visible ou chanquement décelable) J de chir 1000 x xxv 1

It is a matter of great importance to differentiate at an early stage a simple bramathrooss which can be cuted by puncture and movement from a bemarthroos due to sprain in which spontaneous cute cannot be expected because it is habitually as companied by autison of hone or the rupture of a ligament. The history may be of aid. A simple fall in the hone produces simple harmathrooss whereas the mechanism causing aprain is torsion. Direct examination of the hace gives that even information. It harmathrous which after puncture recurs to in the marthrous which after puncture recurs and operation of the production of the pr

If bone is torn out at the sites of insertion of the crucial ligaments on the third or feman or if there are small communited fractures of the third plateau the changes will be visible in the rotatigenogram after evacuatory puncture. In the anteroposterior view the level of the intercondyloid eminence will have a hazy contour and in the lateral view there will be loss of cicarness of the silhourite.

When an intra articular anatomical lesion can be disposed from the clinical course or the roenigenogram early arthrotomy is advisable Unless ar throtomy is done early it is probable that an opera turn for sequelar will be necessary later when the conditions for success will not be as favorable.

The authors report face cases in considerable de tail. The return of function was complete in three, four, and six months. The patients ranged in age from mactien to forty two years. In four case there was an avisition fracture of the intercon dyloid eminence, and in one case the memiscus was torn away.

In the absence of sepass the functional result of arthrotomy depends largely on the rapulaty of the subsidience of the vasoomotor disturbances produced by the transmission at the level of the joint and the details of the operature technique. As a rule the colema of the spread was a rule the colema of the synovial membrane, the proliferating synovitis the pain the rarefaction of home and the hypotonas of the muscle are influenced favorably by the operation but sometimes they are agravably about the operation but sometimes they are signally altered to the result of the signal such as the signal of the signal such as a signal such as the signal such as th

The extent of the arthrotomy is less important than the manner in which the operation is performed Because of possible multiplicity of lesions the operative field must be clearly in view. The authors perform a U arthrotomy with detachment of the tibial tuberouty. The aponeurotic incision involv ing the fibrous lateropatellar layers is made a little outside the skin incision. In detaching the tibial tuberosity it is important to incise the fibrous tissue on each side of the tuherosity leaving attached to the bone a small fibrous lateral band sufficient for the suture. In releasing the patella it is important to prevent injury to the subpatellar fatty bundle the suppression or laceration of which leads to the development of sclerosis with resultant loss of suppleness in the normal play of the patellar tendon Conservative and restorative procedures on the bigaments or menisci are not advisable. If the ligament or men sci are torn or disinserted they should be removed. A fractured intracondylar eminence should be fixed in place. The simplest operations gree good results The manner in which the tihial tuberosity is detached makes it possible to dispense with metallic fixation. The fibro aponeurotic collar lelt on each side permits the tuberosity to he in cluded in the aponeurotic suture

After the operation simpobilization is continued for from twelve to fiften days. At the end of that time active mobilization is begun. The patient leaves his bed after from three to four weeks. The period of functional restoration fasts for from three to four weeks. The final condition of the joint is practically normal. FIGNENCE A CARPETER

Camitz II The Treatment of Ficsion Contrac ture of the Ance by a Plastic Operation with Fascis Lata (Ueber de Behandlun, der Fieuroskon traktur des Anegelenkes mittels Fascia lata Plastik) ids elotang Scand, 1929 [kv 26]

Plexion contracture of the knee due to chronic polyarthratis or infantile paralysis should be treated ing Of eighteen cases in which an examination was made for lateral deviations (genu valgum and genu varum) such deviations were discovered in nine Growth disturbances were found to he caused solely by the tuberculous change in the epiphyseal carti lage, the method of treatment played no rôle in their development FLORENCE 1 CARPEVIER

Ihde II On Muscular Hernia of the Leg 4da chirurg Scand 1929 lav 97

The author has collected twelve cases of muscular berma of the anterior aspect of the feg. Ife distinguishes two types of such hernie, the traumatic and the constitutional or distention type stitutional hernix are generally found in persons with mesodermal weakness. Of the cases collected by the author four were of the traumatic type and eight of the constitutional type

Distention hernix cause more complaints that traumatic hernix because of the nervous character of the persons in whom they occur, because of a progressive or intermittent increase in their size and because of secondary hernix or ruptures oc

curring in the aponeurosis

Traumatic runtures of fascia or muscle are rare and frequently heal without giving rise to hernia Distention gaps in the fascis of the leg are not un common They bear a relation to muscular hernia comparable to that of wide inguingl canals to inguinal bernia

The diagnosis of muscular hernia is easy but far from unimportant with regard to the possible sociomedical and medicolegal consequences involved Muscular hernia of the leg rarely requires oper

ation The author operated upon three cases of con stitutional hornia which had been causing symptoms over a period of months. A good result was obtained The indications for operation are more ab solute in traumatic hernia and more relative in constitutional hernia

As radical treatment the author recommends my elocectomy with auture of the muscle fascia and skin in stages Simple suture of the fascia is seldom sufficiently strong to prevent recorrence

Zerenko P Necrotic Osteochondro Arthropathy of the Koehler Type (Zur klink der Osteochon droarthropathia necroticans ton kochlerschen Ty pus) Arch f orlhop Chir 1929 EXVE 11

The condition discussed by the author is localized in the head of the second or third metatarsal bone of one or both feet and is characterized by caries. It occurs most frequently in young persons and more commonly in females than males Its course is slow It causes pain and static and dynamic disturbances in the foot

The author reviews 17 cases of his own and 130 collected from the literature. According to the changes in the bones he distinguishes three stages in the course of the condition (1) the stage of extension or localized destruction (2) the stage of full develo ment with fragmentation and arthritis and (3) the

stage of recovery, with stabilization of the remaining structures

Histofogical examination shows necrosis ander the joint cartilage, resorption in some steas and de generative changes in the cartilage. The pathologic caf anatomy and clinical manifestations are best in dicated by the term 'osteochondro-arthropathy To this term the phrase of the Koehler type should be added to differentiate the condition from analogous processes in other parts of the body such

as Legg Calv (Perthes and Osgood Schlatterdae.se At first conservative treatment should be used such as quartz lamp (cradiation heliotherap) sind baths the internal administration of arsenic test of the foot and the wearing of proper foot grar If these measures are not successful within one or two months and the pain increases operative treatment ts indicated The affected head of the bone should be resected and fatty tissue transplanted into the defect. The author has obtained good results with MAXIMULIAN ILESCE (Z) this procedure

SURGERY OF THE BONES, JOINTS MUSCLES, TENDONS ETC

Multiple Resections for Chronic Lyle H H M Osteo Arthritis Ann Surg 19 9 xc 40

The author reports the case of a woman with multiple joints anky losed in a position unfavorable As the result of manipulations for function arthrophasties on the elbows and metara pophalan geal joints and arthrodesis of the wrists with fix ation in the position of choice much of the lost function of the upper extremities was regained ELVEN I BERREITER VID

Operative Treatment in Tu Girdlestone G R bercutosis of the Larger Joints Bril M J 1929

Girdlestone believes that glandular tuberculosis is the chief if not the only source of tabercle bacillamia and that bone and joint lesions are secondary or metastatic Bacillamia arises from the lymphatic or glandular tuberculosis and toxemis from hone and joint lesions

The treatment is first conservative and then operative General conservative and entironmental therapy is maintained for a period long enough to cause the disappearance of the symptoms of bacil Lemia for one year at the end of which time the hymphatic tuberculosis may be considered healed and operative measures may be attempted

The purpose of operating is to remove a bone o joint focus that is causing a persistent harmful toxxmia especially one that is unlikely to heal or at least not sufficiently sound to stand the mechanical

strains to which it will be subjected

Arthrotomy is indicated at the earliest moment for diagnosis The operative procedures advocated for adults are limited to excision, arthrodesis and amputation Exceptions are extra articular arthrodesis of the sacro shae joints extra articular but

processes the displacement is manifest and may amount to luxation

The displacements are practically always an terior With complete and prolonged immobilization in good position preceded if necessary by reduction the deformities become apparent, if they did not follow the fracture immediately or become exagger ated This phenomenon is attributed by most sur geons to pressure exerted on the injured vertebra by the subjacent spinal segment but according to luas the tibrous organization of the prevertebral hamatoma and the cicatrization of the common anterior ligament if it is torn are accompanied by a retraction capable of bending the spine at the level of the injured vertebra When the higament is not torn rarefaction may he so extensive as to amount to disappearance and the displacement takes place secondarily

In time the fractures may be repaired by bons callus. When this type of consolidation has taken place with or without deformity, the cure may be considered final The resulting immobilization is ab solute and later compression of the cord or of a nerve root is not to be feared

The early signs of these fractures may be slight and may he masked by the symptoms of graver in juries such as fracture of the femur, sustained at the same time Cord symptoms occurring im mediately after the injury even when they last only a few minutes should suggest spinal injury. When the lesion is in the cervical region stiffness is always present When it is in the lumbar region there is nothing that points to it with any degree of definite ness except the roentgenogram Roentgenography should always be resorted to after an accident that could possibly cause a spinal fracture Patients in jured in such an accident should be handled with the utmost gentleness before they are immobilized as a sudden movement may bring on paraplegia. In a few cases an operation to produce ankylosis has been performed

The author discusses the relation of these fractures to kuemmell verneuil disease and reports two FLORENCE A CARPENTER

Wilmoth P and Lecoeur 1 Operative Treat ment of Infrathalamic' Fractures of the Cal caneum Surgical Reduction and Bone Graft ing (Le traitement opératoire des fractures sous thalamiques du calcanéum reduction sanglante et preffes ossenses) J de chir 1020 XXXIII 781

The authors state that when the site of an in frathalamic fracture of the calcaneum has been ex posed for the length of the external surface of the calcaneum and the thalamus has been brought back to an infra astragalar position approaching the normal the infrathalamic breech is still considerable It traverses the hone from side to side. The loosened thalamus may be easily pushed down and its new position is very unstable. As the calcaneum is spongy and hence friable and as it is meagerly supphed with fat it will not well support a metallic prosthesis Osteoperiosteal grafts sustain the thala mus and favor the formation of callus

Complete denudation of the external surface of the calcaneum exposes the line of infrathalamic fracture and the lines which radiate toward the anterior and plantar surfaces of the bone astragalocalcaneal articulations gape widely for some distance The calcaneocuboid articulation is not always open but is always dislocated. The thalamic mass must be di engaged and moved up so that its superior convex articular surface is in contact with the inferior concave articular surface of the astragalus When the thalamus has been replaced an opening more than 1 cm in height is discovered This cavity must be filled with osteopenosteal grafts taken from the external surface of the peropeal malleolus and from the peroneal draphy sis

When the anterior apophy sis of the calcaneum is completely detached the surgeon may proceed to calcaneocuboid arthrodesis. To keep this apophysis in place grafts may be slipped into the tarsal sinus The authors have used this technique in four cases

The term aftr thal mc the standard on of susthall mages. The reposes so of ed the trous not be tacken us pushelow the straights. The term may be translated a below the socket of the cafe us. It corresponds to the subastragalord asso of flote.

first by conversion of the tensor fastix latz muscle into an extensor. The increase in strength thus of tained is usually sufficient to reduce even serious flevion contractures. A persisting contracture of from 10 to 13 degrees can be corrected by a cap sulctomy by Puttis method.

Port L. Operative Arthrodesis of the Tatocal cancal Joint in Club Foot (Zur operativen tr throdese des Talocalcanealgelenkes het Klumpfuss) Deutsche Zischr f Chr., 1929 ccxv 208

As non operative treatment of club foot after the fittenth year of life does not offer a favorable out look and as osteoclass leads to considerable bone in jury, the author has adopted a new procedure which has employed in three cases with very good

results
Its method consists in the removal of one wedge of bone from Chopart's joint and to correct the varian position of the heel of another from the talo calcancal joint. The skin incision is made over the extremal malleculus to the tip of the bone, then an tenority to the base of the fifth metatarisal and then over the dorsum of the foot. The soft insures are separated and Choparts is joint and the calcockaneal joint are opened. Both joint must be wide open so that the foot may be deseed. A small meason is made called from the joint surfaces. If the first and second metatarists are still displaced downward an osteot own is slowe upon them.

After the operation a plaster-of Paris cast is worn for three months. An important advantage of this method is that the ankle joint is not opened.

BRUENING (Z)

FRACTURES AND DISLOCATIONS

Taylor A S Fracture Dislocation of the Cervical

I racture dislocations of the cervical spine due to direct violence usually cause sufficient damage to the cord to result in immediate death. Hence the author discusses only those caused by indirect vio

lence such as hyperflexion

In the latter type there is mynry to the spine ord meninges and never roots. The dislocation is associated with communited fractures of the articular processes rupture of the articular liquid and the interventional distance for the thickenand the interventional distance of the thickenand the interventional distance of the conline of the community of the community of the freeding of the community of the bodies and between the articular processes behind

The cord may be merely contused or completely severed Haymorrhage varies in amount but is usually punctate. The ordemu 1s proportional to the seventy of the injury. When there is deformity of the bones a transverse pressure myelits may de

velop later

The treatment should be directed toward the restoration and protection of nerve function by early

reduction. The reduction should be accomplished without anexthesia. In the method used by the author, controlled traction is applied on the herd and counterfraction on the legis such the music spasses relaxes sufficiently, to permit reduction to binanual manupulation. The truction on the head is obtained by means of a halter which is statisfied to a trope passed around the pelvoy, of the operators that the occrator may support the patients band and need, with his hands while the traction is begun

applied
After reduction has been obtained immobilization
is continued for three or four weeks. At the end of
that time a string brace with a jury mast is used and

ambulatory freatment is begui Open operation is dangerous because it necessitates additional handling of the patient and because removal of the arches weakens the stabilizing apparatus at the injured area. It is necessity how ever when there is evidence of subarachnood block and when transverse myelity develops.

FIVEN J BERKHEISER MD

Huet P Unrecognized Fractures of the Verte bral Bodies (Les fractures méconnues des coms vertebraux) J de chir 1010 xxxx 13

Incomplete fractures of the spine without injury to the cord which are chinically latent are far from rare

J and A Brockel collected eight cases and saw fitteen cases themselves. Left reported eight case in three of which the fracture was in the certail portion of the spine and in five of which it was in the lumbar portion. Baumgartner saw four cases in four years. Moore believes that there has been an increase in uch injuries as the result of automobile accidents.

The causative trauma may be so slight that in the case of a fall the patient gets up and walls away without as istance. A joit that causes the head to strike against the top of an automobile of that causes a person to be thrown in a sitting posture from the seat to the floor is sufficient. The discovery of the lesson may require very good an

terior and lateral roentgenograms

Such fractures are most frequent in the cervical Multiple fractures do not and fumbar regions always involve adjoining vertehre. All types of fracture are represented. A compression fracture is usually asymmetrical when it is not it may be difficult to recognize in the roentgenogram. In the majority of fractures there is more or less marked displacement of the fragments The displacement may be contemporaneous with the fracture or secondary and associated with the sudden development of paraplegia or quadriplegia in a patient who showed no signs of paraly sis at first. In an untreated case at may be late and progressive. In cases of simple rofraction the result may be limited to slight angulation of the spine kypho is scoliosis or Lyphoscohosia In the graver cases with associated tearing of the ligaments and fracture of the articular

Normal Intravascular tension may cause arterio sclerosis Hypertension causes earlier and more in tensive changes. In the greater circulation de crescent arteriosclerosis begins as early as the third decade, but in the pulmonary circulation it does not occur until the seventh or eighth decades because normally the pulmonary arterial pressure is one sixth the pressure in the aorta Age is a factor only in allowing sufficient time for the normal or in creased pressure to act Since mitral stenosis the most common cause of increased pressure in the lesser circulation occurs more frequently in the rela tively young arteriosclerosis of the pulmonary cir culation occurs at a much lower average age than arteriosclerosis of the greater circulation Sex is a factor only as it affects pressure relations The con dition is more frequent and develops at an earlier average age in men than in women because the normal pressure is higher in males The relation of arteriosclerosis to intravascular

tension is indicated also by (1) the direct relations of retunits to hypertensive disease (2) the fact that artenosclerous is most prominent at sites where the strain is greatest such as proximal to a congenital or artificial vascular stenois (3) the occurrence of sclerous in the endocardium of heart vashes sclerous in the endocardium of heart vashes strain and (4) the fact that artenosclerous of greater circulation is usually less in phthissical pattents whose blood pressure is no phthissical pattents whose blood pressure is no phthissical pattents whose blood pressure is no.

Sclerosis of the veins is independent of general sclerosis. It is localized to areas of increased intra

scleross. It is localized to areas of increased intra venous pressure such as are found in cirrhosis of the liver, persistent umbilical vein and artenovenous aneurism. The presence of phiebosclerosis of the mesentieric vessels in Banti 8 syndrome suggests that hypertension of the portal system may be a factor in

hypertension of the portal system may be a fact the causation of the lesions of that condition

The artenosclerous as thus far produced experimentally is not identical with artenosclerous in man Infections including syphilis, probably do not cause artenosclerous but produce an artenis. Because of the independent development of artenosclerous in the greater and lesser circulation it is improbable also that tomos metabolic products and food point and the control of the control of frastion and dimmahed expansion was Points of frastion and dimmahed expansion was considered as colar trunks play a rôle in the localization of artenosclerous patches.

The conclusion to be drawn is that hypertension is to caused by arteriosclerosis but on the contrary hypertension in either the greater or lesser circulation is always followed by arteriosclerosis of the vessels

5. 5. Platt M.D.

Loehr W The So Called Traumatic Throm boses of the Azillary and Subclavian Veins (Ueber die sogenannte traumatische Thrombose der Vena azillaris und subclavia) Deutsche Zischr f Chir 1219 (221) 263

The author states that so-called traumatic thrombosis of the authory and subclavian veins is

ver) rare. It is more frequent on the right than the left side and as a rule occurs in persons of middle age who are in good herlith. Its onset is characterized by shight pain mild fatigability and wear ness swelling and cyanosis of the arm. This phase is followed by a reparatory phase with venous did attion. Only after some time its adequate venous drainage restored. For a long time fatigue, pain, and weakness on effort persist.

The previously assumed thrombosis resulting from tranmatic tearing of the intima has not been demon strated as the cause of the condition. Nor is the cause a disease of the blood an infectious condition burn or other affection such as frequently leads to thrombosis In Lochr's opinion the most important factor is persistent over exertion with resultant over dilatation of the arm years. Because of the un yielding sheathing of the subclavian veins by fascial fibers and the fack of large collateral veins between the arm and the superior vena cava congestion readily results from sustained intense muscular Mechanical obstruction from adjacent activity glands callus gosters etc may contribute to the development of the condition In pronounced cases there is often a polycythamia. In two of six cases seen by Lochr polycythamia was definitely present and in one the red cell count approached that of polycythæmia

Cases of true thrombosis of the axillary and subclavian vens should be differentiated from those with obstruction and overdilatation of the venous channels. The former condition is extremely rare and may result from the latter. The clinical differentiation of the two conditions is very difficult ferentiation of the two conditions is very difficult or infected focus in the arm vens and event centrally must be ruled out.

The conditions of stasis which are favored by mechanical obstruction can be completely relieved by operative treatment (removal of glands etc.) For cases in which no mechanical obstruction is demon strated only conservative measures (rest) may be considered.

E. Koryin (2).

Lindquist E On the Causes of Unricosity and Thrombo Embolism deta obst et gynec Scond

Lindquist believes that the chief cause of varieties is the retrograde blood current occurring in the saphenous vein which was described by Magnus The abnormal circulation he attichutes to the up right position in which the force required to transport the blood to the heart situated relatively far above us not great enough to prevent certain other forces of a simple hydrostatic nature from asserting themselves when in more advanced years, the blood propelling forces are diminished. In the staphenous propelling forces are diminished. In the staphenous the contract of the capitality network of the foot and leg where the capitality network of the foot and leg where the contract of the thigh and cally as successfully satisfact of the thigh and cally as successfully satisfact on the contract of the thigh and cally as successfully as the capitality network of the thigh and cally as successfully as the call is satisfact of the thigh and cally as successfully as the call is satisfact of the thigh and cally as successfully as the call is a successful or according to the call is satisfact of the thigh and cally as successful or according to the call is a successful or accordin

SURGERY OF THE BLOOD AND LYMPH SYSTEMS

BLOOD VESSELS

Ipsen J Methods Which Permit a Study of the Function of Peripheral Arteries (Des methodes qui permettent détudier les fonctions des artères pényhénques) Lels chieure Jeand 1939 [12-226]

Lenches work on sympathectomy led to investigations of the hiology of the peripheral arteries m

which use was made of measurements of the aurface temperature as well as oscillometry

The surface temperature indicates (Ebbecke Lenis and others) the amount of blood that flows through the skin This depends upon the degree of dilatation of the arterioles. The temperatures are taken with mercury thermometers under a layer of felt Normally the temperature is about the same everywhere on the arms and the upper parts of the legs but shows marked variations in the feet. The difference between the two sides is always less than I degree except in the feet where it is a little greater The color of the skin shows the amount of blood present at a given moment in the capillaries and venules of the skin The circulation of blood through the skin and the degree of dilatation of the cap illaries do not necessarily correspond as the dilata tion and contraction of the arteries and capillaries take place independently of one another (Lrogh)

Oscillometry with Pachon's instrument gives an idea of the degree of dilatation of the large arteries especially when comparative studies are made

After a brief review of what is known of the inner vation of arteries (anatomy and physiology) the author gives an account of the action of different stimuli. Trauma causes contraction followed by dilatation and work causes immediate dilatation Stimulation of the sympathetic ganglia has a marked effect on the corresponding arteries. While the action of slight heat has no particular effect on the arteries, even fairly mild local cooling of the skin by the application of water at a temperature of 15 degrees for ten minutes causes prolonged local con traction and more pronounced cooling of a hand causes contraction of the main arteries of the arm Local cooling may therefore be employed to deter mine whether the superficial arteries are paralyzed When paralysis is present the surface temperature will rise to its level before the cooling in a lew min utes whereas when the arteries are normal this will take one and a half hours or longer Lastly mention is made of the marked effect on

Lastly mentions is made of the attenses of inflammation. When for example the superficial temperature over a futherculous knee is 2 or 3 degrees higher than that over the sound knee the difference is due to reflex dilatation of the arteries and not to conduction from deeper lying issues. At the base of the extremutes and on the

trunk no such rise of temperature takes place probably because reflexes are elected only within the area of the artery concerned

I ower Sir D A Hunter & Operation for the Cure of Ancurism Bril J Surg 1929 2011 193

Power wivers Hunter's contributions to sector and his first operation for the cure of population ancursion. Hunter performed his operation for abscursion five times. His results proved the correctness of his theory that slowing of the blood stream will cure aneumen that aneumen's caused by disease of the arteness and is not simply the result of long continued local injury and that agarders will not result from legation so long as there is will cort collateral circuits for Jensey Documy, Williams (Controllation Jensey Documy, Williams).

Afoschowitz E The Gause of Arteriosclerosis
Am J M Sc 1929, cleven 244

In attempts to determine the cause of artern sciences at its not sufficient to study the sciences at its not sufficient to study the sciences at the science of the greater circulation alone as the promotary system capillars evens and bett my also be affected. Investigation of the leason in each of these components give convencely proof that it main and perhaps the only cause of attends clerous is internationally pressure.

When there is involvement of the general circu lation the pulmonary circulation is usually not affected. The reverse also is true. Investigation of the pulmonary vessels shows that arterio clerosis is a frequent condition being found in 6 5 per cent of all autopsies and that the factor common to all causes is mereased tension. The causes include mitral stenosis emphysema, pulmonary fibrosis obliteration of the pleural apaces kyphoscoliosis open ductus Botalli and communications between the right and left heart. The alveolar wall has a beaded appearance due to the enlargement of the capillaries The enlargement of the capillaries re sults in contraction of the alveolar spaces which is one of the reasons for the decrease in alveolar ca pacity noted in cardiac disease. The pulmonary lesions are termed arteriocapillary fibrosis and are almost identical with those of glomerular ne phritis in hypertension of the greater circulation The pulmonary capillary sclerosis represents the lesion of "Stauungsinduration or the pneumonia of heart disease. It is not present in uncomplicated sortic insufficiency, in which increased pulmonary intravascular pressure is dynamically impossible Watjen has reported a case of pulmonary arterio sclerosis in an infant six months old which was due to a patent interventricular septum. This case proves that increased tension may cause arteriosclerous to six months

Good results are obtained from operation in about to per cent of cases. In 25 per cent operation is entirely successful, allowing the patient to leave the hospital with a normal extremity. The most successful operations are those on the brachial artery, and the least successful those on the aorta. Key has reported a successful embolectom, on the aorta by

retrograde approach through the femorals The operation should be performed under local regional or spinal an esthesia. Liberal exposure and gentle handling are important. The vessels are con trolled by rubber tubing above the embolus and below it on each of the branches Sufficient tension must be applied distally to prevent the embolus from travel ling peripherally Frequent washing with 2 per cent sodium citrate is advocated. The embolus should be milked out from below through a longitudinal inciion made at its upper end which allows free bleed ing from below. The distal arteries are controlled by the rubber tubing and the upper portion of the embolus or secondary thrombus is forced out by the blood stream Careful closure with silk completes the procedure

Six embolectomes in 7 attempts are reported. Three of the 7 patients died in the hospital 3 had temporary restoration and 1 had permanent restor ation. Three of the 4 who survived required amputation. Early diagnosis and operation are necessary for successful results. E. S. Furr. M. D.

Brooks B Surgical Applications of Therapeutic Venous Obstruction J Messoure State M Ass 1929 FV1 428

The author discusses particularly the use of venous occlusion in arterial disease. He states that in experiments on animals the incidence of gangrene following arterial obstruction was decidedly lower when

both the artery and vein were obstructed than when the artery alone was obstructed. He gives the indications for highton of the vein as follows I Cases of arteriovenous fistula in which the

artery has been ligated and closure of the fistulous opening is impossible and those in which closure of the fistulous opening necessitates obliteration of the artery

2 Cases of progressive arterial degeneration with

3 Cases of sudden arterial occlusion

4 Cases of injury or operation which require ligation of a large artery M HERBERT BURKER M D

BLOOD, TRANSFUSION

Warren S L Acute Leukæmia A Review of the Literature and of Twenty Eight New Cases 4m J W Sc 1929 claxviii 490

Watten reviews 113; cases of acute leukemin and reports a case in which infiliration by leukemic cells was found in every organ examined. In size and shape the cells resembled the small lymphocytes but possessed a more abundant cytoplasm and were thought to be my elogenous cells of a primitive type Warren comments on the constants of the history, clinical perture and blood and tissue findings regardless of the constant of the constant of the constant of the history clinical perture and blood and tissue findings regardless of the constant of the constant of the history clinical perturbation is considered to be all myself of the constant of the con

Most of the patients whose cases are reviewed were joung adult males Eighty four per cent died within eight neeks M Herbert Barre M D

In a similar way the author explains the production of varices in the hamorrhoidal veins and the pampiniform plexus

On the basis of this theory and the findings of investigations made by Aschoff, Starlinger, and Sametnik Lindquist concludes that the varicose syndrome is one of the main causes of spontaneous venous thrombosis In support of this view he re fers to a statistical compilation of the cases of thrombosis and thrombophlebitis treated in the obstetrical and gynecological department of the Malmó General Hospital during the period from 1904 to 1927 In these statistics cases of thrombosis pulmonary embolism and thrombophiebitis have heen carefully differentiated. The data show that the incidence of thrombosis and embolism has con siderably increased in recent years. The author has found also that cases of thrombophlebitis bave to creased in about the same ratio as those of thrombo sis In explanation of the increased frequency of thrombosis he expresses the opinion that the conditions under which the new full grown generation is living have produced factors favoring the develop ment of the varicose syndrome

In conclusion various measures suggested for the prevention of thrombosis after labor and operations are reviewed Lindquist advises the wearing of an elastic stocking for some time after operation

Allen E V Thrombo Anglitts Obliterans Methods of Diognosis of Chronic Occlusive Arterial Lesiona Distal to the Wrist with Illustrative Cases in J M Sc 1939 cluvus 237

Accurate diagnosis is possible in cases of suspected vascular disease and the mistake of diagnosing thrombo anguits obliteran as Ray naud's disease or erythromelalgia is avoidable. The diagnosis may be made from the history examination by inspection and sulpation, and simple tests.

Thrombo anguts obliterans is an inflammatory disease of the vessels of the extremities resulting in occlusion. Any of the vessels may be affected not only the palpable afteries as is sometimes assumed

Occlusion of the ulans or radial attery distill to the wrist cannot be localized by the usual means succeolor changes with posture a decrease in the pulsation of the attery at the wrist, and a decrease in the cutaneous temperature at the wrist may be absent a considerable of the decrease of the cutaneous temperature at the wrist may be absent activated to the presence of better that the cutaneous activate in the presence of better decrease in the radial or vitant artery—results in prolonged pallor radial or vitant artery—results in prolonged pallor.

Involvement of the digital arteries may be determined by stroking or exerting pressure to induce pallor. When obstruction is present the pallor per sasts for some time. Abnormal postural color changes in all digits suggest involvement proximal to the digital arteries while excessive pallor of one or more digits suitally means involvement of the digits showing the color changes.

The complete examination of patients with sus bected arterial disease must include an investigation of the effect of posture and of the kin temperature Palpation alone is not sufficient to determine the patence or occlusion of the arteries it must be

supplemented by the compression test

The author reports cases demonstrating the irreg

E. S PLATT VID

Allen A W The Surgical Treatment of Embolism of the Extremities V Fagland J Med 19 9 cm

ular distribution of the occlu ion

The first successful removal of an embolus from a lurge astery was performed by Labay in 1911 12 a case of embolus at the hiturcation of the contino femoral artery. Previous attempts had been made as early as 1895. Carrel's development of a successful technique for arterial survie made the procure possible and the operation was popularized by the success of ke.

In our 6 coo autopses Bull found 3 pengheni embol Tho were in the aort 6 in the commodia artery 5 to the femoral artery 5 in the populati artery 3 of 1 in the subclavan and saulity arteries. He found also 181 thrombi in the heart. In 37 cases of embolism research by Danzas the conducts due to an operation in 6 to partinition in 3 and to exchange the state of the partinition in 3 and to

cardiovascular disease in 22 The diagnosis is often obvious As a rule there is a history of sudden excruciating pain in an extremity coming on in a patient already ill usually with car diac disease Large doses of morphine are required The pulse rate and respiration are increased Pal'o a decrease in the pulse pressure sweating, and shock are apparent The limb is cold and pale and there is absence of pulsation In the case of the arm there is inability to move the fingers. I ater the limb be comes mottled In arm involvement there is a fixed drawn appearance of the fingers with contraction rather than awelling of the tissues The differen testion from thrombosis is difficult but thrombosis develops more slowly Phlebitis is differentiated by the pressure of swelling a blush color and the presence of heat and pulsation in the vessels Muscle

spasm from temporary anymia is transient In the localization of emboli it must be remem bered that the common site is at the bifurcation of vessels. If the case is seen before there is extensive secondary thrombosis the embolus can usually be located If it is in the popliteal artery the femoral artery can be felt pulsating in Hunter's canal The decrease in the temperature stops at the ankle and ankle motion is usually po sible. If the embolus is at the bifurcation of the common femoral artery the skin temperature is lowered to a short distance above the knee pulsation can be felt just below Poupart's bigament and motion of the ankle and toes is abol ished If the embolus is at the bifurcation of the common sline artery the whole thigh is cold there is no pulsation and lines motion may be abolished In some cases the embolus may be palpab'e especially when it is situated at the bifurcation of the brachial and femoral arteries

especially dangerous hecause of its depressive effect on the heart During the operation it may lead to arrest of hreathing, and after the operation it may cause metabolic changes such as poisoning

GEORGE R MCAULIFF M D

Blood Changes under Ethylene Trout II H Anasthesia Anes & Anal, 1929 Vm 269

The author helieves that ethylene-oxygen causes less change in the percentage of blood sugar than any other general anasthetic and he has found that it produces no appreciable change in the coagulation or bleeding time. It results in fewer blood changes than any other known anasthetic probably because it produces less disturbance of the oxigen content of the blood In spite of its advantages, however, Trout is of the opinion that it will not soon supplant ether for general abdominal surgery

GEORGE R MCAULIFY M D

Pitkin G P Spinocain The Controllable Spinal Anæsthetic Brit M J 1919 ii 183

Spinocain is a combination of novocain amylo prolamin strychnine, and ephedrine The purpose of the amyloprolamin a viscid jelly like substance made of gliadin is to prevent diffusion of the novocain and that of the strychnine and ephedrine to prevent vasomotor collapse A light spinocain has a specific gravity of 1 0005 and contains 2 mgm of strychnine, 200 mgm of novocain 130 mgm of amyloprolamin, 300 mgm of ethyl hydrate and normal saline solu tion sufficient to make 2 c cm In the heavy solu

tion, which has a specific gravity of 1 100 the ethyl hydrate is replaced by 100 mgm of propantriol in enough normal saline solution to make o 5 c cm

The heavy solution should always he given with the nationt in the sitting or marked Fowler position Pitkin uses sharp 22 gauge short heveled needles He says that the size of the subarachnoid space varies in different persons, but the extent of expansion of spinocain necessary to produce anasthesia on the body surface at different levels is quickly learned Children tolerate spinocain anæsthesia very well The article contains a table for use in determining the dosage necessary for the induction of anasthesia in children between one month and fifteen years of age M HERBERT BARKER M D

Gwathmey J T Oil Ether Colonic Anæsthesia Clinical Experience with More Than 5 000 (ases I im if iss so 9 scin 447

Colonic oil ether anxisthesia is considered by the author safer than routine inhalation anasthesia. It is always under control and has a safety margin. wider than that of other ethylene or nitrous oxide In its induction there is no possibility of infection of entering a vein or of injuring an important nerve such as is associated with local spinal sacral, paravertehral and regional anasthesia. Recovery is usually painless and devoid of the unpleasant after effects of ether A 65 to 75 per cent solution of ether in oil is used This is non irritating The only contra indication to the method is a pathological con dition of the howel George R McAulier M D

SURGICAL TECHNIQUE

OPERATIVE SURGERY AND TECHNIQUE, POSTOPERATIVE TREATMENT

Hertzler A E The Newer Conception of Wound Healing as Applied to Practical Surgery Am J Surg 1929 VII 293

Hertiler states that primary wound healing is brought about by the application of the wound surfaces produced by 5brin fibrils which remain to form, through chemical changes adult fibrius issue when the control of th

"secondary wound healing"

Those conditions which provide ideally for the formation of fibrillary fibrin in the coagulation of blood make for primary wound healing and con versely those conditions which inhibit the forms tion of fibrillary fibrin make for secondary wound healing Infections cause secondary wound healing but other conditions are also responsible. Fat pre venta the formation of fibrillary fibring hence the interposition of fatty tissue between two surfaces will prevent primary healing Secretic fat anfil trates and invades the auture line even when the tissues have been correctly counted. Necrosis of fat is produced by trauma such as the rough handling of retractors the needless crushing of fatty tissue and interference with the blood supply to the fat These factors also prevent primary union Digestive ferments and to a lesser degree, urine act in a similar manner

Thrombs and embols are due to the formation of saeptic masses of granular fibron. Gdeman of the sisses in which the vessel lies permeates the vessel walls and changes the subendethelast substance which forms the fibron. The formation of fibrillary than 15 prevented hence clots lacking this substance and forming within the vessels do not organized the state of the sta

Adhesions due to infection are temporary and are

Antheories on a columnicative process has analoged to the first process and a columnicative process and a columnicative process and a second discent the an infective process in which the irritation is just sufficient to produce an exudiate capable of horizon fibrillary fibrin. Muchel fascia healing is hough about by a fibrious my octua healing is hough about by a fibrious my octua healing is hough produced to the process of the product o

pends on whether the drainage is established to con

duct to the surface fluids that have accumulated in natural or articlasci cavities or to firmads meanal escape for fluids which may accumulate and produce microsade tenson. In the first instance it is desirable to keep the wound open until the diseased condition heals. This can be done with inhiber tissue which prevents the formation of fibrillary fibrin In the second instance it is desirable to prevent the accumulation of fluid and favor wound healing by favoring the formation of fibrillary fibrin. This can be done with gazer which acts as a foreign body and promotes conquisition.

Where vessels have been ligated and the wound is left open, gauze will favor the occlusion of the ves sels by the coagulation of fibrin Secondary hamor

rhage is thus prevented

In skin grafting the graft will heal better when it is applied to a granulating surface which has not been bathed with a solution which might remove the layer of fresh fibrin on its raw surface

MANUTE E LICHTENSTRIN MD

AN ÆSTHESIA

Fairlie II P Napier F L and Primrose W B
Discussion on Amesthesia in Relation to
Operation Risk Glargon II J 1919 ext 6;

Farkur believes that amounted the decreased by the use of introus ouds and eithplese. Vitrous under induces amounted the state of the concess of dubetes and toue poster. It is son irritating to the respiratory tract and has relatively little effect on the metabolism. Its disadvantages are that it requires the use of a cumberiome apparatus at does not produce complete relation and it ruises the blood pressure. Ethilene resembles mittous onche but is very inflammable and

has an ubjectionable odor

Nation so if the opmon as regards both strength and tourity when coupter a position madway be tween introus naide and chloroform. He employs atropin prior to the induction of annethena to lessen mucus secretion but he disapproves of the use of morphine herouse of its sedutive effect on the respiratory center. He employs either by the closed method for short anxietienas and a rule it support to the constraint of the constra

PRIMAGES states that while chloroform has excellent amesthetic properties it is so tone that it serves best as an adjuvant to ether given by the open method. He discusses the risks associated with its use. During the induction of the amesthesia it is offspring ADOLPH HARTING M D

RADIUM

Carling E R and Leslie Spinks A J Radium Teletherapy Clinical Experience with a Tem porary Bomb Brit II J, 1929 II 180

CARLING istates that radium teletherapy lends it self to the treatment of primary growth difficult of access wascral metastases and infiltrating extent on. The cases in which he has used it were principally those of growths not amenable to other forms of radium application. Those requiring treatment additional to the interestinal cavitary, or contact spiciation of radium, chose of growths of swit dimensions that homogeneous irradiation by other methods was impossible and those requiring prophylact irradiation after operation in the great majority, the condition was elassed as hopeless.

The dosage was entitely empirical though based on Forsells deturn that a certain minimal absorption of irradiation in a given time is necessary to secure healing of a given type of timor. It is difficult to measure the amount of irradiation absorbed There is a certain maximum of irradiation which cannot be exceeded without causing injury to the organism as a whole. The dosage should be concentrated unto as short a period of time as possible. The tradition as a distance of io one for fifty beauting of radium as a distance of io one for fifty beauting of period and the concentration of the co

In the cases of neoplasms of the tongue and mouth the response was poor hut other methods also failed. The most satisfactory results were obtained in neoplasms of the living and pharyns. The

exophagus as beyond satisfactory range. The treat ment failed in cases of neoplasms of the uterus and owness but in these there was extensive abdominamassion. In cases of rend neoplasms only palliation was obtained. Breast recurrences were kept in check even when they were extensive Vulvai glanddar extression were both as sensitive as it and only a temporary recession.

The effects of the straduation are purely local One group of metastases may be vanishing under the treatment while another group beyond the field of traduation is steadily progressing. The best results are obtained in eases of growths which on account of their situation tercute tradiation of high intensity that is, grow this in the pyriform fossa the posteriord region and the ahdominal and ervical glands. As more than 1 gm of radium is needed for the administration of afection does in a millicent of the deministration of afectine does in a millicent of the present gram apparatus to the treatment of carrenomata at a depth not greater than 6 cm.

LESLIE SPINKS discusses the mechanics and use of the temporary homb. He states that before the patient is treated a drawing is made to scale of the lesion and its situation in the body and an intensity chart is applied to the drawing While a distance of so cm was decided upon the actual intensity de livered was in many cases diminished for purely mechanical and anatomical reasons. The 'homh" is in use twenty four hours daily six days a week Out patients are treated by day and in patients by might The average duration of treatment is two hours Periodical examinations of the blood and liver function and other biological tests are made to determine the effects of the irradiation on the organ 25m as a whole A JAMES LARAIN M D

PHYSICOCHEMICAL METHODS IN SURGERY

ROENTGENOLOGY

Ewine J Radiosensitivity Radiology to a xui 313

Ewing discus es the relation of radiosensitivity to cellular metaboli m the embry onal character of the cells the general physiology of the cells of origin and

the patient a general condition

He states that rapid growth of a tumor nearly af ways signifies radiosensitivity A rapid rate of growth is accompanied by an increased or unstable blood supply a large number of mitotic nuclei and an abundance of autolytic cell ferments factors combine to render rapidly growing tumors sensitive to radiation. In fact caution must be used in their treatment in order to prevent interstitual h emorrhage and massive necrosis

The radiosenutivity of embryonal cells probably depends on the lability of the embryonal cell cyta plasm its delicate vascular supply and absence of

a disposition to produce fibrous tissue

With regard to the general physiology of the cells of origin Lwing discusses the desmonlastic proper ties or the tendency to produce connective tissue The less marked this tendency the more radiosen sitive the tumor The more highly vascular the

tumor the more radiosensitive it is

The location or hed of the tumor also influences the results of radiation. Tumors growing in bone are resistant. In fat tissues tumor cells find abundant nourishment but are protected from a ready attack by leucocytes and granulation tissue. Tumor cells invading old inflammatory areas are very resistant

The patient's general condition determines the results of radiation regardless of all other factors In the cases of patients in good health without anamia or cachesia the results of fadiation are af ways prompt and definite whereas in the presence of anamia or cache ua radiation may ful completely

In general the degree of radiosensitivity runs parallel with the degree of cellular differentiation of the tumor cells but there are many exceptions notably the melanomata and the grant cell tumors of bone. As the result of studies on degrees of malignancy and radiosensitivity tumor diagnosis has become more difficult and at the same time more serviceable The difference in malignancy and radiosensitivity is an important guide for the radio CHAPTES II HEACOCK M D therapist

Murphy D P and Goldstein L The Ettology of the Itt Health of Children Born After Maternat Pelvic treaduation Am J Roentgenol 1929 Yau

This study represents part of in investigation dealing with therapeutic pelvic irradiation of women

and its effect upon the health and development of subsequent offspring Two previously reported studies showed that such pradiation may be fol lowed by the birth of unhealths or defective this dren and that it may have been the cause of the all health or defects in the children In the invertiga tion here reported all of the etiological factors that may have been responsible for the production of the ill health or abnormal condition of the children were weighed in order to ascertain the extent to which these factors influenced the health of the subjects and if possible the special rôle played by the irradi ation in the production of the various disturbances In this article the group of unhealthy children born

after preconception irradiation is discussed The findings of the investigation are summarized

as follows

1 Twenty four per cent of 650 pregnancies fol lowing preconception or postconception radium or roentgen irradiation of the pelvis ended in abortion and 13 per cent terminated in the birth of unbealth ehildren.

2 One out of every 10 or ra children born after preconception irradiation of the pelvis was un healthy whereas 1 out of every 2 children born after postconception stradiation was unhealthy

3 The ill health of 24 of the 46 unhealths chil dren born after preconception irradiation was at tributed to such influence as (a) ill health of the mother prior to irradiation or during pregnancy 6 cases (b) complications incident to deliver, or pre maturity 13 cases (c) accidental causes 3 cases
4 The cause of the ill health of 22 children could

not be determined Only 7 of these children were

seriously defective

5 Only I child out of every 50 children born after preconception arradiation exhibited a gross anatomi cal defect of unknown origin. In this small number the disturbance may have been caused by the previ ous ovarean irradiation but it is probable that if the stradiation had been the etiological factor the de fects would have occurred with greater frequency

regularity and uniformity

In conclusion the authors state that it is con ceivable that therapeutic preconception irradution of the pelvis by its deleterious influence upon the germ plasm of the unfertilized ovum may be the cause of defects in subsequent children since a few disturbances of unexplainable origio occurred in the children under investigation Experimental study may eventually throw more light upon this at pres ent theoretical possibility The authors believe that the continued use of the roentgen rays or of radium in the treatment of pelvic diseases in the non pregnant woman of child bearing age is justifiable until at has been shown beyond doubt that such

Following a historical review of 'trophic' disturbances the author states that new interest in these conditions was aroused by the experiences of the war. There is general agreement that the pumar, influences determining the injuries are to be searched to the traums and that the ultimate disturbances have their origin in the central stump of the injuried user.

In all of twenty dogs in which chronic irritation of the central neuroms of the sciatic nerie was produced by cicatrical adhesions, tearing or sewing to skin and muscle it pical non healing ulcers developed within from one and one half to two months after

the operation

Forty five churcal cases treated by neurotomy are renowed off the twenty sur that first group, complete healing resulted in from two months to two years in twenty five. In one case there was a tendency toward recurrence. The cause of the condition in the twenty five cases was local trauma in twelve trauma to the nerve stem "at a distance in twe cases and burns various evens, lues, and ostcompelitis in one case each. The cause in three cases is unknown. These subgroups are discussed individually. In some instances as many as four neuntomics of different nerve were necessary.

In the second group there were seven cases with perfect results at first but with rapid recurrence Nearly all of the patients in this group were old and

half of them had symmetrical gangreine.

The third group comprised thirteen cases in which
there was no healing after neurotomy. Most of the
patients in this group also were old hut no special
cause for the condition could be determined.

It appears that the best results are obtained before the thirtieth year of age. The case reports are supplemented by numerous illustrations showing the

condition before and after treatment

The study of the process of healing demonstrated that neurotomy is followed by a copious secretion of pus the amount of which may be measured directly The bacterial flora changes Before operation microscopic examination shows gram negative ha cilli and sometimes gram positive diplococci and cultures vield bacillus pyocyaneus and sometimes gram positive diplococci and staphylococci After operation microscopic examination more frequently shows gram positive diplococci and less frequently gram negative bacilli and pure cultures of gram positive diplococci are obtained. The hydrogen ion concentration of the wound secretion varies from 6 9 to 7 1 before operation to from 7 1 to 8 1 after operation The gram positive entemcocci growing best on alkaline media are placed by Kaschkin in the group of enterococci

The ulcer varies also in its appearance after neutro only In the course of three or four days fresh granulations sprout up and cover the raw surfaces. Accroite tissue masses are thrown off and the hypericariotic areas become loosened Epithe lalization sets in rapidly and makes good progress. The orderna so frequently present quickly vanishes.

Against these improvements, however, are the disadvantages of sudden recurrence of oxdema, disturbances of motility at times invariable loss of sensibility, and sometimes the development of hypzithesias. The area of sensory loss is shown hisketches. The author states that a neuroma may develop at the point of nerve suture. Twice he has observed the development of ulcers in the operative star.

The question of the transmissability of irritation is discussed in detail. The fact that the sensation of pain may originate in the peripheral end of the cut nerve seems to depend on recurrent nerve fibers.

The nervous trophuc character of these leg ulcers appears to be proved. In attempts to cure them the reflex are must be interrupted at some point preferably in the sensory part. In sympathectomies only the descending, centrifugal impulses are in terrupted, this accounting for the unsatisfactory ultimate results (recurrence after six months in 36 per cent of the cases, freedom from recurrence after.

one year in only 4 per cent)

With regard to the technique of neutrotomy with immediate resulture of the cut nerve, the author advises a large skin nonson but only slight mobilize thought the constraint of the constraint of the constraint of the resulture of the constraint of the constraint possibility of ulter formation in the wound. Other requirements are the use of local anasthesia section of the nerve with a rator scapled hamostasis by pressure with pledgets on the bleeding spot suture with slik after the errey ends have been approximated to within 3 or 3 mm, two epineural transversely passed conjutation stitches on hoth sides and in certain cases a few directing stitches to match up the inner topography of the nerve

J VOLKMANN (Z)

Niven J S F The Action of a Cytotoxic Anti serum on Tissue Cultures J Path & Bacteriol 1020 XXXII 527

The author made a study of the cytotoxic proper ties of rabbits serum for mouse tissue. These properties were developed by the injection of a sus pension of mouse embry of tissue into rabbits.

The first evidence of cytotoric action in the scruin was an inhibition of emigration of fibroblasts when itssue such as embryo heart was cultured in the scruin. Later on death of the cells was produced when an actively growing culture was exposed to the serum for a short time. When a suitable mutritive medium was substituted no further activity was shown by the cells. To produce a powerful cytotoric scruin it was found necessary to continue immunization over a long eriod.

It was noted that the mode of action of the antiserum under-next also a qualitative change Atfirst under the influence of the serum, death of cells took place only after several hours and autol yas then followed. When a suitable medium was supplied the persisting cells of the culture resumed activity and emigration and mitosis occurred. At a

MISCELLANEOUS

CLINICAL ENTITIES-GENERAL PHYSIO-LOGICAL CONDITIONS

Rubašev S Partial Congenital Macrosomia (Macrosomia partialis congenita) Trudy Belorus skogo Unir 1928 xxu 3

This is a review of 12 of the author's cases of partial congenital macrosomia and 456 cases collected from the literature. In Ruha ev a opinion. none of the classifications suggested for such cases

to date is satisfactory

The cases reviewed include 315 of involvement of a single portion of the body and 142 of involvement of a system Amety four of the latter were cases of unilateral partial macrosomia. Crossed partial macrosomis of which there were 14 cases is to be considered a continuation of the latter Involvement of both upper or both lower extremities is called by the author 'paramacrosomia' There were 26 cases of this type. Involvement of an entire system. suggests a systemic causative factor such as is to be found only in an endocrine or neurogenic condition

The question of involvement of the internal vicera still remains unanswered on account of the lack of sufficient data. Cases of hypertrondy of the right lung the right kidnes and the right overy of one breast, and of half of the scrotum have been seen

The author has been able to collect 42 cases of hemibypertrophy of the face. Of partial macrosomia of all or a part of one extremity there are 273 cases of record. In 52 there was involvement of an entire upper extremity in 75 involvement of the hand and fingers in 67 involvement of an entire lower extremity, and in 83 involvement of the foot and toes Accordingly involvement of the distal portions of the extremities is the most common

In the fingers and toes a certain regularity is discernible. Involvement of a single finger is fess common than involvement of several fingers. In volvement of single fingers or toes occurs most fre quently in the second and third digits. Combined involvement of the second and third the first second and third and the first and second fingers or toes has been observed. Combined involvement including the fourth and fifth digits is less common In the cases reviewed there is no instance of isolated involvement of the fifth finger. The fifth toe was involved in z cases, and the fourth finger and the in z case each Involvement slipping a finger is rare

In the author s opinion there is some relationship between macrosomia and trophic innervation which evidently corresponds to the cerebrospinal innervation only in part Disproportionate growth cannot he regarded as a basis of classification as transition forms have been seen and in the same case propor tionate growth occurs in one extremity and disproportionate growth in another, a fact indicating that both forms of hypertmphy have the same cause

Unilateral and crossed partial macrosomu base relatively seldom been found associated with disproportionate growth The progressive growth of the involved part of the body and especially rand growth after birth also indicate the participation of

endocrine and neurogenic factors

The cases reviewed abow a slightly higher in cidence of the condition in males than in females. This difference is apparent also in the single groups Inheritance was evident in fewer than i c per cent of the cases In 23 per cent nevt were present A much smaller number showed vitiligo There was either a single very large pigmented spot or a num her of very small spots The navi were often found on the hypertrophied parts but in some cases were scattered over the entire body Vascular anomalies in the form of angiomata varicose nodules and aneurtsms were found in as per cent of the cases In 17 per cent, trophie disturbances were mamiested by an increase in the temperature increased secre tion of sweat hypersalivation paræstress in creased growth of hair ordema changes in the pails, or ulcerative processes. A lipomatosus was present in 42 per cent of the cases \arrous malformations and underdevelopment of the mentality have been noted Cryptorchidism is not uncommon simultaneous occurrence of various as-ociated disturbances in 30 per cent of the cases proves that this is not a coincidence and that every associated disturbance is a sign of one and the same basic condi-Pathologico-anatomically there is both a hypertrophic and an atrophic process Therefore the picture as a whole is a dystrophie syndrome

On the basis of his own obser attors and his review of the literature regarding the etiology, the author concludes that partial congenital macrosomia is the expression of a disturbance of the trophic nervous system in the central or the people eral portion. The extent and the character of the affection determines the localization of the matrosomma as well as the as ociated symptoms cause of the disturbance of the nervous system may be a gross anatomical process or the action of various secretions chiefly those of the hypophysis and the suprarenal glands E Banks (old! (2)

Wischnewski A Experimental Clinical Studies on the Question of the Cenesis and Treatment of Chronic Trophic Ulcers in Man (Experimentelle klumsche Untersuchungen zur Frage der Genese und Behandlung chronischer trophischer Geschwuere trek klin Chir 1929 chi 195 beim Menschen)

This is a comprehensive work based on extensive chinical and experimental studies

other cells depend upon connective tissue for their stroma this function is held to constitute the physic logical resistance to growth opposing an activating influence upon their stroma which all growing cells tend to exert Growth occurs when the activating influence is sufficient to overcome the resistance and ceases when the resistance is adequately augmented in tadpoles treated with this substance there is a definite delay in metamorphosis and in newts so treated the rate of regeneration of parts lost by am putation is slower. When the substance is injected intraperatoneally into young mammals it causes an immediate arrest of growth, and when the injections are stopped growth is resumed In pregnant guinea pigs the effect is cessation of the increase in weight iollowed by abortion

In a number of rats into which the Jensen sarroma, mas implanted the administration of this substance by mostle led to arrest of the growth of the tumor and often to its complete absorption. When the substance was superfed intraperationsally the first effect as no blanned constantly but it was seldom effect as obtained constantly but it was seldom early effect of the constant of the contract of

of the animal's normal growth

The suggestion is made that the physiological resistance to malignant growth is of the same kind as the physiological resistance to normal growth, and that both may be augmented in the same way

The inhibiting substance described has no prophy lactic value against implanted tumors probably be cause of the rankity of its exerction

MAYUEL E LIGHTENSTEIN M D

Nicholson G W de P The Illitrogeny of Tera tomata J Path & Bacteriol 1919 xxxxx 365 Nicholson believes that teratomata are pathological manifestations of physiological growth A true though mallormed permanent kidney in a

teratoma is described in support of this theory The specimen was a large unilocular refropera toneal cost a cystic teratoma in a lemale inlant. On histological examination derivatives of all of the germinal layers were found. The differentiation of the tissues corresponded to that of a full term feties The blood supply from the left renal artery and the left hranches of the aorta and the attachment of the cyst to the upper pole of the left kidney and adrenal indicate that it occupied a position in proximity with if not between these organs at a very early stage in embryonic life. The cavity of the rist was comparable to a large myelocele. The glandular lohules and cystic spaces indicated a true permanent kidney This was clearly not a haphazard collection of renal tissue but a malformed organ Both parts of the kidney were identified the collecting apparatus and the secretory substance. The left kidney was not normal its pyramids being reduced to five because of from three to five cranial renicula

The conclusion is drawn that the tumor was the result of a malformation of the somatic tissue of the

host and that it originated and was developed in

The author states that teratomata should not be spoken of as radimentary embry os. In embry os is an undependent individual whereas a teratoma is a part of the body of its host. Teratomata in general contain more of the regions characteristic of the body nor any evidence that their development is comparable with that of the embryo.

The permanent kidney of the retroperitoneal teratoma described was not one of its own tissues but the finissing cramal renicule of the left kidney of the host. A teratoma with a metanephros as a primary constituent has not yet been reported.

The tasses of tratomata are no more nor less the result of self differentiation than the corresponding somatic tissues. Whenever there are clear indications that they are reactions in the bod, the indications at equally clear that they are reactions in the tratomata. Differentiation is therefore the expression of the same physiological principles of growth in the body as in teratomata. W.N. Rouley, M.D.

Straub G F Desmoid Tumors California & West West 1929 vvii 186

The term desmoid tumors coined by Saenger is applied to a group of rather rare neoplasms oc curring chiefly in the abdominal wall and having their origin in the tendinous structures the aponeu roses or the inscriptiones tendinem of the abdomi nal museles. They entirely lack muscular elements At times they assume the macroscopic appearance of sarcomata without becoming histologically sarcom atous Macroscopically they are characterized by similarity to the mother tissue in their character and arrangement nodules knotty appearance hard and elastic consistency and the peculiar grinding sensa tion which is noted when they are cut Microscopie examination shows them to be hard oligoeystic more or less vascular tumors consisting chiefly of connective tissue of the aponeurotic type. Malig nant change is always secondary

These tumors occur more frequently in women than in men and are more common in parous women than in others. They grow slowly but have been known to attain the size of a man's head. Traum's probably not a factor in their development.

Their treatment is early radical removal

The author reports a case of desmoid tumor

N. N. ROWLEY M.D.

Blair J The Mechanism of the Cancer Death and the Relation of Pernicious Anzemia to Cancer J Cancer Research 1929 th 142

Blair is of the opinion that there is a relation be tween pyehlis permicious anamia and cancer by reason of an apparent common origin and by reason of their possible to action in the same person

He behaves that death in cancer which is not due to starvation harmorrhage or pressure on vital organs is usually the result of toxemia and urinary truct infection later stage of immunization the rapidly acting cy to toxin which had been developed while killing the cells appeared to inhibit the subsequent autolysis. The antiserum acted on cultures of normal epithelial cells (kidne, hur, internal) accessed.

thehal cells (ludinew liver intestine), circimona V 63 (Imperial Cancer Research l'und) and a spon a nacous adenocarronna of the mouse as well as on various mesoblustic elements (fitroblusts mesothe lab cells, macrophages etc The changes produced were studied in fresh preparations alterations in the form and in the behavior of the cells to supravital staining, by neutral red being noted. In addition, the changes in the cells were investigated after fination

and staining by various methods

The cytotoxic action took place most rapidly at 37 5 degrees C, more slowly at room temperature, and not at all at o degrees C. Fixation of cytotoxia by the cells occurred for when the cells were trans ferred to 37 5 degrees C the cytotoxic action took place with great rapidity. When the rapidly acting antiserum was heated to 56 degrees C its eviotoxic action was not entirely destroyed but underwent a modification characterized especially by delayed ac tion and the production of vacuoles in the cytoplasm The action of the heated antiserum was completely restored by the addition of normal rabbit's serum which by itself was devoid of rapidly acting cyto toxic properties. It therefore appears that comple ment is essential for the occurrence of rapid and in tense cytotoxic action although a thermostable antibody may by itself produce a certain amount of damage to the cells as shown by histological changes

When the antiserum was tested on cultures of the issues of other animal species it was found that on the issues of the embryo rat the effect was similar to but slightly weaker thin the effect on mouse tissues. On embryo chicken and gunea pig tissues, the effect of the antiserum was no more intense than that of normal rabbit; a serum which appears to be related to the normal content of heterophile anti-

body in rabbit s serum

The conclusion is reached that a specific antibody has been developed for mouse tissues which acts also on those of a related species the rat. The autiserum shows in addition to its evictions properties, a slight hemoly the precipitating and complement faxing action.

Mixely Elegistrick M.D.

Heaton T B The Effect of Infibition of Counce tive Tissue Growth by Means of Substances Present in Tissue Extracts J Path & Bacteriol 1020 vxxxx 565

The author discusses the resistance of the body to malignant disease Aucording to his theory cancer cells however abnormal may possess no properties which are absolutely new Athough evaggreated and disproportionate their properties do not differ more than quantitatively from those common to all growing cells. A large ramber of tissues continue to show cell division throughout adult life and some means must cust whereby this growth tendency can be kept under restraint. The fact that human can cer common as it is, is not universal is in itself in indication of a mechanism to oppose it. The cut accer in the normal body of a means of resting physiological growth is well illustrated by the size ture of an intestinal villus. Here an epitchian is a constant state of active profileration minimism is proportions unalitered throughout adult life. The prodiferating epitchian is supported by a state strong of vascular connective issue which passed results optimized a connective of the active principle in some strong of vascular connective issue which passed results optimized a connective of the active principle in some strong of vascular connective issue of the principle in the connective of the active principle is not in the connective of the active principle is not in the connective of the active principle is not included in the connective of the active principle is not in the connective of the active p

veset to it by the blood stream. The tendency of malignant issue to infiltrate in inhibited also by the resistance of concerne uses to infiltration. The development of semigratures such as a corn may lead to no invision of the ton nective tissue in spite of the development of result between the produce pain. A cystic admonification to produce pain. A cystic admonification may be engaged to the control of the

of demarcation from underlying tissues

Therefore connective tissue has two functions is regard the development of neopissum first simble ton of epithelial proliferation and second treatatest to invasion. The development of heaving times due to the inactivity of the first function. Safe the development of malignant tumors after to the activity of the second function. Since benga tumors may become malignant at its possible that a braid down in both functions may occur either amultane outs or consecutively.

The author then presents evidence in support of his views. In a number of animal organ he found a thermostable chemical substance which had a definitely selective action upon the tissues of the embryo chick, growing in culture is wifer. Be growth of fibroblasts was inhibited in its presence, while that of epithelia was unaffected.

This inhibition as some us not tome to the should be a superior of the state of the

temor and the transient activity of general countries. The effect of administratory is year or mile is substance obtained from brever a year or mile is accompanied to the substance of the subst

through them to German surgery Billroth was a contess. His yearly clinical statements from Zunch and tennal report with utter candor and the share accounted for without an omission. His lower of truther accounted for without an omission. His lower of truther with the statement of the statement

Metnikov A The Results of Russian Surgery During the Last Twenty Five Years (Die Er folge der russischen Chirurge im Zeitraum der letzten 25 Jahren) i ein Chir 1028 zur 302

In Russa the years from 1901 to 1915 constituted the period of highest achievements in morphological surgery, and the years from 1915 to 1920 the period of imilitary surgery, with suspension of most of the Russian surgical journals. The cubminating point of the latter period wist the year 1918. In 1920 began a period of re awakened activity in scientific work and of leuximant isonering of the medical press and of leuximant isonering of the medical press time? In the hast period, the interest of Russian surgeons has been centered in the fight to proport portains of the proposition of the proposition of the period of the surgery of the period of the surgery of the period of the period per

The number of surgeons in Russia presents in teresting fluctuations. In the cleven years just preceding 1905 the number increased by 33 in the preceding 1905 to 1014 it thetheld (\$ 533) and in my considerable of the 1905 to 1014 it thetheld (\$ 533) and in the fact that a number of thickly populated provinces were lost to Russia. In 1914 the surgeons constituted one (weather hand in 1014 one must hof all the bigst caused of Russia. The number of those who occupied themselves exclusively with surgery sarred between 2 and 36 per cent of the total number of between 2 and 36 per cent of the total number of between 2 and 36 per cent of the total number of in 1014 the 1014 in 1014 in

geons
Seventeen pan Russian surgical congresses and 6
Ukrainan Caucasian and other congresses with a
total of 183 addresses indicate the rapid growth and
activity of Russian surgery. The number of Russian
tables in 1932 (13) exceeded but only slightly
which is the constraint of the control of the control
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total of the control
Russian surgeons published in German periodicals
(20) amounted to one fourth of those published in

Russia The chief subject was abdominal surgery (155 articles) The number of monographs and text books is steadily increasing. Among the subjects of dissertations first place is taken by the unnary tract and second place by the gastro intestinal tract. In 1016 the teaching in medical schools was carried

on by of faculties with 124 professors of surgery

Reports from the clinics and hospital services undecate a fange in recent jetts from local anass these finetered before the war! to general anassthesia finetered before the war! to general anassthesia that explained on the one hand by the presence of 3 oung phisacians and on the other hand by the greater serousones of the operations performed today as compared with the period before the war. Most common are abdominal operations the number of which has increased greatly since the war. Then unwher of operations on the extremities shown a marked decrease. Operations on the face are very frequent those on the brain extremely interquent. Before the war the average postoperative mortality was 2.3 per cent. Since the war that have no 3 per cent. The increase is explained by the more extensive employment of operative treatment.

The borderline specualties especially orthopedies and urologs are continually rising in steem, and special societies with their own congresses are being formed for them. Stomatologs, surgery of the nerves and pulmonary tuberculous have also been recognized as specialities. At the close of 10-75 there were y surgical societies not including the surgical sections of medical societies and the Russian Surgical. Association which existed before 1800 includes all Russian surgical sections of medical societies responsible for the pain Russian organizes Several turgeous of the first rank have established their own schools. Some of these schools are of the hospital type and others of these schools are of the hospital type and others of these character. Still others putsue a more

theoretical, scientific hine

In his conclusion the author emphasizes the many disadvantages under which the Russian surgeons are working, among which he mentions the small number of beds in most of the chines and many of the private institutions. On the other hand a number of special institutions have exceptionally good equipment which havors rapid scientific progress in the branches of sargery they expresent E Bussian's Motor (2).

McGraw T A Operations on the Thyrold Gland Bull Johns Hopkins Hosp Balt 1929 xlv 172 This article was the first report in America of the

ans article was the first report in America of the complete removal of the thyroid gland and was published in the Detroit Clinic in 1882. It is reprinted in the Bulletin of the Johns Hopkins Hospital hecause of its historical interest.

SAMUEL KARY M D

As urmary tract infection is commonly present in cancer and is apparently of hematogenous origin. Blair regards it as reasonable to assume that other tissues in the body are also subjected to the lodgment of micro-organisms by way of the blood stream and that this bombardment of traumatized or irritated tissues by harmatogenous infection from a chronic focus of low grade infection is indirectly the cause of cancer He suggests that the energizing factor in the continuous growth of the cells may be chemical and partially influenced by certain toains given off by the chronic focus of infection the lessened alkalinity of the blood and chemical sub stances set free by the destruction of the blood borne micro-organisms at the site of the cancer which are derived from the destroyed bacteria or from the body of the leucocyte or macrophage that may be destroyed while destroying the micro organism

A review of the literature and expenence with a chrone focus of infection seems to indicate that in all cases with a chrone focus of infection such as an abscross, or chronic sinusitis a secondary hermstogenous in ection is set up in the unnary tract and that there fore puus of any degree of chronicity which recurs or fails to respond to treatment in a strong indication of a chronic focus of infection outside the unnary tract.

If these conclusions are correct the prophylaxis of cancer necessitates the removal of chronic foci of infection.

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The authors citefoureases in which the chinical and laboratory findings led to exploration of the para thyroids and the removal of a parathyroid adenoma

resulted in relief of the symptoms

Samuel Kana, M D

HOSPITALS, MEDICAL EDUCATION AND HISTORY

Payr Opening Address and Billroth Memorial Lecture (Eroefinungsansprache und Billrothgeden krede) 53 Tag d Deutsch Ges f Chir Berha 1949

The 1929 Congress of the Deutsche Gesellsehaft fuer Chirurgie eelebrated the hundredth anniversity of the burth of Theodor Billroth Pay: remoded his bearers of the Billroth Festival to be had it vienna on April 9 and 10 and urged the stand ance of as many as possible of the German surgeous stating; that such an opportunity of Sifiraing brotherly feeting with their Austrian colleagues und of bringing proof of the true Fellowships of all German

surgeons should not be lost The influence of the life work of Billroth one of the greatest genuses among the pathinders of medicine on the art, science, and development of German surgery was a powerful one Billroths new creative operative conceptions his technical achievements and the successes that he was the first to obtain are by no means all of his intellectual legacy He was the founder of modem abdominal surgery, since the resection of diseased portions of the stomach which he performed successfully siter careful preparatory work and was the first to do outlined the principles for all operative work on other parts of the digestive tract. He was the on, inator also of the surgical removal of the cancerous laryny and esophagus In the fields of thyroidextir pation and plastic bone surgery his nork opened up hitherto unexplored regions and in addition he prepared the way for operative gy necology In an exemplary manner he showed German surgers the methods by which a new field of work should be spproached to achieve good results

Billroth was the first German surgeon with a profound knowledge of the finer tissue changes in pathological states which are revealed by the mi croscope He recognized that surgery would become scientific only as the result of investigation of the causes and the nature of diseases. He was both a pathologist and a surgeon Up to his seventieth year he wrote only on pathology In his studies on wound healing he was the direct precursor of Mar chand His theories regarding the causes of mab naot tumors the starting point of which he held to be plant cancer agree with views held today By him surgery first came to he regarded from the He was a true standpoint of 'natural history investigator of nature in the working garb of the Die allgemeine His magaincent work chirurgische Pathologie und Therapie was and for a generation remained the bible of his fellow surgeous throughout the world

Billroth was the founder of the greatest and most successful school of surgery which filled with its pupils a great number that the professional chains of Austra. Germany that the professional chains of Austra. Germany that the professional chains of Austra. Germany that the professional chains of the procession of the concoming generation. His school has achieved great things. It has guarded fauthfully and out of the concoming generation. His school has achieved great things. It has guarded fauthfully and out of its own strength has increased the henting left by its master. Its fellowship with him was maintured into the third generation.

Billroth a magnificent letters are a precious legacy from a German surgeon to his contemporaries and

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INTERNATIONAL ABSTRACT OF SURGERY

MARCH, 1930

LANDMARKS IN SURGICAL PROGRESS

BY IRVING S CUTTER, M.D., Sc.D., CHICAGO Dean Northwestern University Medical School

BENJAMIN W DUDLEY AND THE SURGICAL RELIEF OF TRAUMATIC EPILEPSY

HARLES BALLANCE; states that Victor Horsley, slive examining the skulls in 1887 suggested that many of the trephine openings indicated that the operations had been performed for the relief of 'Jacksoman' epilepsy Frofessor Lucas Championnere' is in agreement with Horsley that prehistoric trephining was definitely a remedial measure Neuberger' is authority for the statement that the Chinese sur geon, Hoathon, in the third century performed the operation of trephining

While Hippocrates employed the trephne, it would appear that from the time of the Athenan Father of Surgery 'until the early part of the unesteenth century futtle progress was made in the surgeat attack on myunes smoking the brain Perexial Pott (1713-71788) the earliest British surgeon to give mouth attention to brain injuries fre

quently mentions the operation of trephining He noted that symptoms arising from head in From a portra t by Joseph Wins R best Reter 1.5 Champes into the 10 tory of the Surgery of the Br in Lond a sparlyon and Anthropological Institute 1855.

Les orign es d' la trépanation décompressure 2013 l'History of Medicine I English translation by Erurat Playfair



BENJAMIN W DUDLEY!

juries were not due primarily to the injury of the skull but to damage to the brain heneath. The great Trench surgeon, Jean Louis Petit! advocated the free use of the trephine and called special attention to the pressure from extravisations of blood between the dura and the hone. He further recommended the use of the trephine in convul sions—not to cure the convulsions, but to remove the cause.

Sir Astley Cooper," a pupil of John Hunter and of Henry Cline (12350-12827), relates the case of a Mr T age thirty one, who on Jan uary 20, 1822, six months subsequent to a head injury suffered an epileptic attack. Decompression

was advised but was postponed until the thirtieth of July The attacks having increased in fre quency, a decompression was done by a Mr Hempsted Cooper says

The patient speedily recovered from the operation and has not since had any return of the epileptic fits

He gives the indications for the use of the trephine as follows

1) rest Louis Prut, r574 1770 He was the first to open the mastold process (Garnson a Hustory of Medicare)
Sr Authy Cooper (1768-1841) Lectures on the Principles and Practice of Surgery 1849

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EDITOR'S COMMENT

WILSON'S report to the Medical Rescarch Council of the results of the tannic acid method of burns (p. 256) is prefaced by the interesting statement that this is "one of the most important recent advances"

in modern therapeutics' The report is based upon the results obtained in 117 cases treated at the Ruyal Edinburgh Hospital for Sick Children and the Edinburgh Royaf Infir mary Of the 117 patients, all but 12 were under ten years of age. Of these patients in died, a mortality of 10 48 per cent. Of the total num ber 13 died, a mortality of 11 11 per cent This death rate is compared with a mortality of 38 7 per cent in a series of 300 cases, reported by Fraser, in children under ten years of age who were treated by other methods Davidson (SURG GYANG & OBST 19-5 xls, 202) to whom chief credit is due for developing this method of treatment and for calling it to the attention of the medical profession, Bancroft and Rogers (Ann Surg , 1926 levery 1), Beck and Powers (Ann Surg , 1926, Ixxxiv 19), and Montgomery (SURG GYNLC & OBST, 1920, xlym 277) among American surgeons have reported their results with the tannic acid method in several large series of cases. No one who has read the reports or seen their results can doubt the state ment of Wilson quoted above

The constant search for more accurate and un equivocal diagnostic criteria is emphasized in MacGregor's concise discussion of the diagnosis of tumors of the spinal cord (p o.) Mac Gregor stresses the importance not only of differentiating cord tumors from other pathological conditions involving the cord, but of determining whether a tumor is outside the dura within the dura and outside the cord, or within the substance of the cord in connection with his discussion, Alajouanne and Petit Dutaillis report of a case of compression of the cauda equina by

a tumor of an intervertebral disk (p 203) and Dandy s report of two cases of compression of the spinal cord by a displaced fragment of an intervertebral disk (p 246) are of especial in terest

Heuer's discussion upon the surgery of mediastenal dermoids (p -08), Mixter and Chiford's report of three cases of entodermal cyst of the mediastinum (p. 208) and Robertson and Brown s report of a case of dermoid cyst of the medias tinum (p 207) indicate the increasing interest that is being manifested by surgeons in different parts of the world in these unusual and, until recent years, almost invariably fatal cases. Complete removal of the mediastinal tumor and closure of the thoracic wall are emphasized as the most important factors in securing a successful outcome Drainage and tamponade of large cavities result in widespread infection with a resulting high mortality or, at best the neces sity for extensive thoracoplastic operations to secure obliteration of the cavity and healing

Wolfer's experimental study of the behap process in the cysic duet after its division and ligation brings out the interesting fact that the presence of gause drains leading to or near the ligated duet prevents the formation of credite about the duct or forms a pathway by which evudate is carried way. Since the organization of this evudate about the stump of the distribution of the second and the second second that the second is the important fector in its obtleration, its loss predisposes to failure of healing and consequent leakange of the second s

The indications for operation in recent fractures of the long bones the complications which may follow operations for fracture, and the fer quency with which gas gangene occurs in compound fractures discussed in interesting papers by Scudder (p 248) and Darrach (p 248) are ton of many of the stimulating and helpful abstracts

appearing in this month's issue

During the months of February, March and the beginning of April he was constantly confined with a severe affection of his head attended by violent

epileptic fits every five or six days

The trephine was used on the 46th day of April, we circular pieces of hone being removed corresponding with and including those portions which have been examination, secred to be depressed. The pencicanium was remarkably theckened and admitted of large processes of this membrane and admitted of large processes of this membrane and of blood vessels to pass directly to the dura mater.

After the operation was completed I was aston shed on turning my attention to the dura mater, to discover a copious secretion of fluid which separated that membrane from the surface of the brain more than half an inch, while that organ in place of giving to the finger a sense of pulsation felt as hard and as unyelding as a board.

It was now ascertained on examination the fifth day that the fluid beneath the dura mater was absorbed The brain had regained its proper level and pulsated with unusual vigour no convulsion had occurred since the operation

From an occasional intercourse with this patient for many months after all professional attendance and advice were suspended. I am prepared to pronounce on the cure as redical.

CASE II

In the spring of 1825 W T, a young gentleman thenty-one years of age in company with his mother, came to this place from South Carolina and from the mother was received the following history of her son a case

When five years of age he received a severe thow accidentally on the superor and middle portion of the left parietal bone. Being at school he was able to go home on food without giving any particular manifestations calculated to exitte alarm. On the ninth day he became suddenly apoplectic and paralysis of one side ensued.

The physicians of his vicinity who were consulted differed in optional concerning the cause and seat of his malady, as did most of those in the southero states to whom application was made for professional assistance. The father of the young man had by letter consulted professor. Thy sick and Chapman! who discouraged any effort at rether by an operation

After receiving this bustory of the situation of the pattern from the mother upon turning to hamself with a view to additional information 1 observed a stammer in every attempt at enuocation which has memory had become so entirely treacherous that he could no longer recite with any degree of accuracy an event which had transpired within two days his recollection being good honeyer in refa.

Philip Syng Physick (1 65-2533) \ th and Chapman (2250-2533)

tion to circumstances of his childhood. For most particulars in relation to his daily history, even in reference to the operation of a dose of medicine it was necessary to consult his mother.

A cicatrix on the side of the scalp pointed out the seat of the original injury. Under all these dis couraging circumstances alter a few days' prepara tion the operation was resorted to on the roth of May, 1825, to relieve him of an injury, the conse quences of which had been accumulating upon him for sixteen years A small depression of bone appearing manifest, corresponding with the original site of the injury indicated the point upon which to apply the trephine The crown of the instrument was made to embrace the depressed bone which when removed presented a process projecting from ats uner surface about one inch in length, of the size of a small quill at its base the extremity tipped with soft cartilage. This spiculum of bone had pene trated the dura mater and communicated with a large preternatural sinus from whence issued a stream of blood as thick as a man's little finger. which continued to flow from the instant the bone was removed until from the quantity lost, it was judged proper to check it by means of pressure

The dura mater was diseased presenting a dark his appearance over a space nearly as large as the opening in the cranium made by the trephine while the sinus beneath appeared to be from an examina tion made by the little finger more than an inch in detth, and of equal width.

The patient had no convulsion after the day on which the operation was performed, a manifest improvement in his memory became perceptible in a few days to all around him. His statement which appeared to proceed from an indistinction of things very stidently vamphed his eye which had been half closed heavy and inanimate, was now sympithy and intelligent. It for days he left his room and at the end of air weeks he returned home in the enjoyment of perfect health travelling a distract of five hundred miles in the month of July in ten or twelve days.

CASE III

Golourth a young man of Jessamme county, kentucky aged twenty three years when five years old received a kick from a horse which fractured and depressed a portion of the right parietal bone. The tumediate symptoms were not particularly alarming notentistanding a wound also in the scale nor was there any extraordinary defect either must about the fifteen of the same when until about the fifteen of the same when without any assignable cause he had for the first time an eightput convision.

From that time he continued to he the subject of epidepsy every second third and sometimes fourth week according as the extining causes acted with more or less intensity. The continuance of epidepsy for eight Jeans had reduced his constitutional vigour, and rendered his system morbidly excitable.

- ast. Where there is extravasation of blood be tween the dura mater and skull and In fractures of the skull with symptoms of
- compression continuing after depletion 3rd In simple fractures with depression and con tinued symptoms of compression

4th In compound fracture with depression un

attended with symptoms of compression, it is best to trephine or to raise the depressed bone by the elevator

5th When matter has formed

On the danger of the operation Cooper con tinues

Some surgeons say that this is a triffing operation and not difficult to perform but they would deceive you, it is one of the most dangerous operations in surgery whilst performing it there is but a thin web between the instrument and the brain cut through this and destruction of life will generally be the consequence Mr Hunter thought that when the dura mater was wounded the person scarcely ever recovered which opinion though not exactly borne out hy the cases which have since occurred shows the impression made on the mind of a man who was so great an observer of nature

Larrey, Napoleon's surgeon general, makes frequent mention of traumatic epilepsy and re lates one case of cure by operation

William Charles Wells' describes an injury to the skull of a negro sailor eaused by the blow of a hammer A marked depression in the right parietal bone was discovered and the patient was trephined by the surgeons of St Thomas Hospital in December, 1804 The inner table of the skull disclosed a new plate of bone from the edge of which there rose a small conical spicule of hone about one-eighth of an inch in length This was removed at operation. The patient when seen ten months later had greatly improved in health his hemiplegia had practically dis appeared, but he was still hable to convulsions when excited Wells concludes

From this case it seems to follow that epilepsy and palsey, originally induced by a mechanical stimulus applied to the brain may continue long after that stimulus has been removed

Between 1818 and 1827, Benjamin W Dudley,2 Professor of Surgery in Transylvania University, Lexington, Kentucky, attacked surgically five cases of traumatic epilepsy In each of these cases Dudley performed a decompression operation with a trephine

**Transactio s of The Society for th | Improvement of Mode at a d Chruryscal howeledge 111 London | S | W | (2757-182) home at Charleston S | C described the trenum t | doctriculus recover the R in lord mod | for his Lisas | Dies | C | List | and in restooch m of by Charles Davan in his profess | O | Ho C | gas of Species.

The T annivanta Journal of Medicine Vol I 8 8.

THE TRANSPLYANIA

JOURNAL OF MEDICINE.

ATD THE ASSOCIATE SCIENCES

VOL. L	FEBRUARY 1888,	NO. L

ORIGINAL COMMUNICATIONS.

Ast L-Observations on Syuries f the Head. By Business Werstow Duntey M. D. Professor of Amstery and Surgery In Transply on Uni eresty Member of the Royal College of Surgrous, London.

Tax great authentics of Europe and of our own country have laid down certain principles by which practituters are generally governed in the treatment of injuries done to the acalp eranium and brain. Since the p blication of Mr Abernethey a invaluable paper on injuries of the head, it might seem that bittle remains to be done in that department of suggery while it is more than prebable that under the present organization and management of the crowded bosp tale of the I rge cities in Europe no interesting and mistary hourstions will be suggested whereas in the United States, and expecualty in the valley of the Musius ppi, where there is conpareti ciy no human in sery no remerkable excesses in luxusy no crowded manufactories, and no large cites where e cry leditidual partakes of nouralme t equally healthy and invigorets g the furest prospect is effered of gr ung sew and secreasing interest to this subject.

Facsimile of introductory paragraph of Dudley's original

CASE I

In the month of September, 1818, Mr K, a car penter of this town called to consult me on account of a severe pain in the superior and posterior part of the cranium which had afflicted him for more months A succession of tumors had at various periods appeared about the seat of the pain Upon an examination in place of tumors two very sensible depressions were discovered on the surface of the skull attended by extraordinary sensibility in the integuments of the parts About Christmas all the symptoms became aggravated and severe epileptic convulsions ensued. His convulsions were so fre quent and violent in the latter part of winter that it was apprehended he would speedily fall a victim to his disease

In the early part of the winter I urged the propriety of trephining the cranium under an impres sion that a morbid growth on the inner surface of the skull was now aggravating even if it had not caused his malad. In April he determined as previously advised to submit to an operation

ceiving no pulsation in the brain I pressed my finger on the surface of the dura mater and dis covered a considerable collection of fluid beneath it which, in the opinion of Professor Short and other gentlemen present, separated the brain from its investing membrane not less than half an inch On the fifth day from the operation, suppuration was established in the wound The dressings being now removed the brain was perceived at its proper level pulsating while the whole of the fluid was absorbed The progress of this case was extremely flattering for the first two weeks after which in consequence of indulging a craving appetite and possibly because the operation was partial in its effects, the epileptic convulsions recurred, and thereby the benefits of the effort at relief are rendered extremely problem atical Some months after this patient returned home I learned that his convulsions were less fre quent and more mild in character than they were previous to the operation

Dudle, was the first American surgeon to give special attention to decompression for the relief of epileps and the first to report any considerable series of cases. In the second volume of the Transylvania Journal of Medicine there is reported a case of epileps by Dr. Cartwinght of Machez, Ussissippi under date of November 3 1838. This case report sent to Dr. Dudley describes a decompression operation in which a large coagulum of blood heneath the inner table of the skull was removed. The patient had suffered from repeated epileptic attacks subsequent to a flow on the bend which entirely exaced after

the operation and recovery

The first medical article published by Dr. John's Billings' was entitled. The Surgical Preatment of Epileps 3. Billings described two cases which be personally observed in the practice of Dr. George Blackman' of Cincumati The decompression operation in each case resulted fatail). Billings lists in his thesis seventy two cases in which the decompression operation had been performed sixteen of which proved fatal, forty two were reported cured four unimproved the remainder improved but not entirely televed. In the list of cases cited by Billings no operator is credited with more than three

except Dudley and Daniel Brainard of Chicago Dudley s cases were reported in 1828, Brainard s in 1859 ⁵

The surgical opinion of the day is well expressed by Samuel D. Gross' who indicated that the results cited by Dudley were not duplicated in the practice of other surgeons

I have myself had occasion to perform the operation four times with the effect of one cure and three deaths and I have witnessed its execution in three other cases all of which terminated fatally. Nearly all the patients perished within the first week from inflammation of the brain and its envelops

Dudley's results challenge modern antiseptic brain surgery. As he points out in his original article he could not hope for as satisfactory results in populous cities and crowded hospitals, guing credit to the clean pure air of the frontier regions of central kentucky.

Benjamin Winslow Dudley was born in Virginia in 1785, the family removing to the vicinity of Levington in 1786 and to that city in 1707 After a short apprenticeship under Dr Frederick Ridgely, an eminent practitioner of Lexington, he entered the University of Pennsyl vania in the autumn of 1804. In 160, he returned to Lexington becoming an assistant to Dr Fishback a local practitioner, and in the autumn of that year returned to the University of Penn sylvania from which institution he received the M D degree in March, 1806 After a few years of general practice in Lexington and vicinity, he spent the period of 1810-1814 in Europe visiting the great clinics of Paris and London He was primarily known as a lithotomist having per formed lithotomy 225 times-the first 100 with out a single death Dudley wrote but little, and his remarkable article referred to herein must have resulted from a strong conviction of the efficacy of surgical relief from epilepsy by means of the decompression operation. He took a deep interest in the development of the Transilvania University Medical School which at one period of its history boasted the ablest faculty of any American school On one occasion having a personal difficulty with Daniel Drake' (1785-1852) at the time a member of the Transylvania faculty he challenged Drake to a duel which Drake declined his place being taken by a friend, *Chicag Medical Journal

Chairs high Short interes for I is an eric feel both see some Ame gas Most (1 little to 1). Blowed A Antil No. 1 has been for the see the set unsubgramers at row h, must be created by the second translation of the second trans

^{*}The C: mast Lancet and Observer n. 1 vol. 4 p 334 1862 Centre C Bla kman (1519-1871) Billing 1 teacher in the Medical C II ge I Ohi C no. n ti

Cystem of Surgery vol is Philadelphi 1873

One I the most fast atting the acter in American medicine easily the greatest physicani of his tim west of the Alleghe 1. Author of the spech m k g tr use Diseases of the 1 trzo Valley of North America 2 vola 1850 1552

The condition of his mind was still more deplorable his memory having undergone almost a total extinction. In the latter part of Pehruary, 1826, after spending a few days in preparing the system the operation was performed in the amphithetatre in

the presence of all the class

The external incision being made, the trephine was applied in such a manner as to cover the larger portion of the depressed hone. In two or three turns of the instrument, the cramum was penetrated in one point of the errele, and through this opening which could have been closed with the small end of a surgeon's probe transparent colourless serum flowed during the balance of the operation.

The circular piece of bone being removed the dura mater was found defective to the extent of a twelve and a half cent piece of silver which ex posed a sinus reaching down to the petrous bone near the base of the scull A spinous process pro jected from the inner table of the bone about half an inch long its base being of equal dimensions. A small portion of the spinous process was not in cluded by the trephine, this was removed by means of a strong pair of forceps. The sinus in which the scrum was collected was large enough to receive a hen a egg The patient had two hight attacks of entlepsy on the second and third days after the operation but on the fourth suppuration was established the dressings were renewed and he began to give assurances of a successful issue by a more abrightly and animated countenance. Each successive dressing was accompanied by new evidences of intellectual and corporeal improve ment, and at the end of the fourth week the wound having cicatrized the patient returned home in the enjoyment of perfect health

CASE IV

O Benen a man of middle age, came to thus placen to summer of 1856 and gave the following history while engaged in rasing a house near Cleveland Ohio he received by accident a hlow on the side of his head which deprived him of motion and of the use of his intellect for several weeks. He had scarcely recovered from the immediate effects of the injury when he was attacked by severe cours! on which he was never free from pain in his head jaws, neck thest, notes of the misches of the side of the misches of the misches of the misches of the misches of the system in a state of morbid contraction. The organs of speech were certred with great difficulty, and his emination was very indistinct.

His senses of taste and smell were nearly destroyed—the fragrance of the rose and the offensive ness of the thoro apple were able to hum His fingers were constantly in a state of semification while the abdomen while the abdomen seem a patient under any err mustances, who appeared to be the subject of such unceasing agony. For weeks in succession has comvisions recurred daily, producing most termise contortions of his entire system. A large maint with apparent depression extended in the direction from behind the external canthus of the n he exto the central portion of the parietal bone of the same side.

After a few days' delay with a view to occur tion the trephine was used nor were there any very remarkable manifestations about the would except an the increased vascularity of the dura mater But in the course of the same evening after the operation the patient expressed himself as being "unlocked" in all his limbs while there was a most pleasing and perfect relief to the organs of speech On the third day from the operation sup puration having commenced the wound was dressed and thus far the patient gave the strongest maniles tations of a speedy recovery in the relief of all pain in his head throat chest and extremities and in his faculty of deglutition and of speech. The ugulty of the muscles and the tumid condition of the abdo men had also nearly disappeared. About the sixth day from the operation he experienced a light epileptic convulsion The relief however which had been afforded was followed by a ravenous appetite and he was constantly inclined to commiexcess in eating both in the quality and quantity of his food By the tenth day from the operation he had so far recovered as to be enabled to take exer cise in walking through the town, while he man fested great impatience in being controlled From the tenth to about the twenty fifth day after the operation the patient had several light convul.ions He continued however to improve in his general health and being impatient under further restraint withdrew himself secretly from my superintendence and I have never heard of him since

CASE

From an from the neighborhood of Bairdstown in this State, a man of middle age, received a blow on the posterior and superior portion of the left parietal bone fifteen years ago and came to this place for professional assistance in April 1827.

According to the best history given by his brother and himself of his case a manifest defect of his memory was perceived in a few weeks after the accident was sustained yet it was two years before convulsions supervened and these have continued to recur for the last thurteen years at very irregular periods, the patient sometimes having half a dozen a day vet about every fifteen days the convulsions are more sensibly severe At present, he is in a state of faturty The tenuity of the integuments upon and ammediately surrounding the cicatrix on the site of the original wound gave deceptive appear ances of slight depression of the scull at this part-When the bone was laid bare however in the opera tion there was no preternatural appearance except in the close and morbid attachments of the pen A circular portion of the scull being removed by the trephine the dura mater presented a healthy appearance as did the bone also Per

ABSTRACTS OF CURRENT LITERATURE

SURGERY OF THE HEAD AND NECK

HEAD

Hyndman O R and Light G The Branchial Apparatus Its Embryological Origin and the Pathological Changes to Which It Gives Rise with a iresentation of a Familial Group of Fistules Arch Surg 19 p. 11, 410

The authors discuss the embryological development of the branchial apparatus and review the literature on the subject. They state that branchial cleft anomalies-cysts and fistular-result from failure of absorption of the included ectodermal and entodermal conthehum that is buried during the growth and fusion of the branchial arches in early embryonic life. They may arise from the remains of either the second or the third arch The thymic stalk plays no part in their formation The cysts are unilateral They may be lined with an epidermoid type of epithelium or columnar mucus forming cells Many of the submaxillary costs and so called ranulæ are of branchial origin Branchial cysts are to be differentiated from adentits cystic hygromata, thyroglossal duct cysts venous hamangiomata, re tropharyngcal abscess and lipomata. They should be completely excised

Fistule are frequently bilateral. They open in ternally in the supratonsillar fosse and externally along the antenor border of the sternomastoid. They may be demonstrated by probing or the section of dye. They may be familial and inherited. They seem to be inherited through the mother only. They should be completely excised.

FRANK B BERRY MD

EYE

Duke Elder W. S. and Duke Elder P. M. Some Physicochemical Factors Influencing the Intra Ocular Pressure Experiments on the Perfused Eye Bril J. Ophih. 1919, xm. 383.

The authors have succeeded in soluting the head of an animal and connecting the carotic atternes with a perfusing apparatus in such a way as to acrate the blood and simulate the heart beat. From experiments on perfused eyes they conclude

r The intra ocular pressure falls with an in crease in concentration of either crystalloids or colloids of the blood and also apparently with slight acidification of the blood

2 The intra-ocular pressure rises with a decrease in concentration of either crystalloids or colloids and also apparently with slight alkalosis

Thomas D Ames Min

Gifford S R Some Non Surgical Alds in the Treatment of Glaucoma Bril J Ophth 1929, xm 48r

Despite the title of this article the author states that nearly all cases of glaucoma will sooner or later require surgical intervention, and that he has seen more poor results from the postponement of surgery than from unsuccessful operation. Miotics should be tried first and their effect noted. The great danger in their use is overconfidence in their effect With the exception of the so called vasoneurotic diathesis and the related condition of bronchial asthma, the author knows of no other general con ditions which have an etiological relationship to glaucoma Cutting down of the field should not be considered a contra indication to operation. The danger of loss of central vision after operation may be lessened by reducing the tension to normal be fore operating and decreasing the time during which the antenor chamber remains empty following the operation

Among the newer methods of reducing tenson is the use of adreadn or glaukosan. This treatment gues the best results in simple glautoma. Amino glaukosan derived from egot reduces the use of the pupil quickly in acute glautoma. The injection of sodium ablande intra-tenululy has also given good results. Opnered in expotamine in used in glautoma. The method is the contraction of the proposition of the proposition

had D T Jr The Oculoglandular Form of Tulatæmia Arch Ophth 1929 11 416

The author's father was the first to recognize the human form of Uniarema. Vall reviews the husby of the disease since its recognition describes its amptions and signs and discusses its differential diagnoss from Parinaud's conjunctivatis leptothrax plantages from Parinaud's conjunctivation for the conjunctiva Parinaud's conjunctivation for the conjunctiva Parinaud's and proposed to the conjunctiva and agricultural Conjunctivation for the conjunctiva and agricultural Conjunctivations.

THOMAS D ALLEY M D

Motto M P and Rowen E H Tuberculous
Dacryo Adenitis 1m J Ophih 1929 xii 818
The anthors report 2 case of tuberculous dacryo

adenits in an eight year-old colored boy Following measles and whooping cough the patient was found to be suffering from tuberculosis of the spine and developed also two fluctuating swellings one on the Dr William H Richardson Richardson was severely wounded in the first fire and his life was saved, so the story goes, by the prompt surgical intervention of his antagonist, Dudley Dudley and Richardson later became lifelong friends

H E Handerson' says of Dudley

*Tra later and commentator Beas "Outlines of History of Medicine N w York 1889

He was to the United States west of the Allerhay Mountains what Valentine Mott was to the eastfacile princeps. In 1828 he trephined the skull for the relief of epilepsy, probably the first operation of this nature performed in the United States.

His death occurred January 20, 18,0 the result of apoplexy

ceding car disease. The process seemed to have developed in the region of the asterion, and was in sidous symptomiess and destructive. It was operated upon successfully

GEORGE R McAULIFF M D

Viasto M. The Chorda Tympani Nerve in Otology Proc. Roy Soc. Ved. Lond. 1929 xxvi. 1568

The author gives a brief resume of the anatomy of the chorda tympani neric and discusses the effect of common otological procedures on this nerve. He states that because of its vulnerable position it is frequently involved in after supportation.

The test commonly used to establish the function of the chorda tympani is the determination of the patient's ability to recognize taste on the anterior two thirds of the tongue. Observations on the sense

of taste are tedious and unreliable

Viasto reports two cases of ageusia following myringotomy. He states that in ossiculectomy the chorda tympani nerve is unavoidably injured. It is frequently injured also in radical mastoidectomy

In suppurative disease of the middle car injury of the chorda tympani occurs most often when the attic is involved. However, in many chronic cases

it is not affected

In two cases of suspected injury to the chorda tympani the author found changes in the submatillary glands W. M. Parov M.D.

NOSE AND SINUSES

Pavis J L Middle Nasal Turbinal Abnormality Fundamentally Responsible for Vany Common Ills Regarded Usually as of Doubtful or Un known Origin Surg Clin V Am., 1929 18 1273

The author calls attention to the association be tween abnormalities of the middle turbinate and a

wide range of disease processes

He divides cases of abnormalities of the middle turbinate into three groups. In cases of the first group the abnormalities consist of variations from the normal in size shape and position. The middle turbinate is rigidly fixed against the lateral nasal and the redirect responsible for the middle and up to the pressure against the senatticed ethinoidal structure.

In cases of the second group there are extensive inflammators changes in addition to variations from the normal in the shape and position of the turbinate The degenerative changes involve both the turbinate

and the adjoining ethmoid

In cases of the third group the posterior portion of the middle turbinate impinges rigidly against the posterior septal wall and it appears that the turbinate developed posterior to its usual location

Among the maladies resulting from the deform thes in cases of Group 1 are headache neuralgia neuritis neurasthenia ameisis hysteria dysmenor rhea tinnitus aurium vertigo and digestive disturbances. The author believes that there is a close association between headaches and turbinsl abnormalities.

In cases in Group 2 the deformities may result in parotysmal sneezing, disturbance of olfaction, hay fever, and sathma Degenerative processes with more or less polypoid formation are always present in asthma and bay fever.

In cases of Group 3 ozena is a common sequela The article includes illustrations demonstrating the anatomy of the nasal structures at various ages

IN M PATON M D

Gardham A J Endothelloma of the Nasophar ynx An Infiltrating Tumor at the Base of the Skull Brit J Surg 2020 XVII 242

Gardham reviews the literature on endotheliomata of the pharynx describes the signs and symptoms, metastases microscopic appearance, and treatment of these tumors and reports nine cases, four of

which were his own

The most prominent symptoms in the cases reported were trifacial neuralgia in three, enlargement

of the glands of the neck in three deafness in two and hemorrhage from the pharmax in one

sections of the tumors showed carenoma like characteristics. The neoplasms were composed of large irregular cells mostly spheroidal lying in a strona nich an connective tusue. There was no evidence of degeneration or the formation of cell nexts. Some of the sections showed marked elects as thousand the section of the contraction of the problems of the section of the contraction of the hotomacteristics.

The clinical appearance of the endothelioma varies. Usually the tumor is small and sessile and hes in the lateral wall of the pharyny in the remon of the custachian onfice. It is pink and firm, and in the early stages practically free from ulceration. It has a peculiar tendency to spread widely under neath the mucous membrane without producing ulceration This tendency results in wide involve ment of the structures at the base of the skull All of the cranial nerves may be involved and in the terminal stages there may be involvement of the nerves of the jugular fossa. The second and third divisions of the trigeminal nerves are commonly affected Involvement of the sixth nerve is regarded by some observers as one of the cardinal signs Direct infiltration of the internal pterygoid and of the levator palati has been reported Unilateral desiness resulting from obstruction to the lumen of the eustachian tube is an early characteristic sign Invasion of the cranial eavity may take place early.

but its symptoms often develop quite late
The prognosis is distinctly unfavorable. The best
results are obtained from the use of radium tubes.

he use of radium tubes
W. M. Paros, M.D.

Ruskin S L The Neurological Aspects of Nasal Strus Infections Headaches and Systemic Disturbances of Nasal Ganglion Origin Arch Otolarysgol 1919 x 337

Many of the manifestations attributed directly to the absorption of toxic products from infected right elbow and the other on the left upper eyelid. The swelling on the right elbow ruptured. The eye condition was complicated by ulcerative keratitis.

Two operations were done on the eye to remove the sear tissue and correct the deformity. The red mass projecting down from the upper lid which was covered by skin above and conjunctiva below, was excised and an external canthotomy was done thistological estimatation revealed tissue characteristic of the lachrymal gland which showed tuber vicuouss

Bengtson I A The Epithelial Cell Inclusions of Trachoma Experimental Studies Am J Oph k , 1929 xii 637

In a bacteriological study of material talen from the eyes in 230 cases of trachoms, Bengton found inclusion bodies in 45 per cent. In the conjunctiva of gunna pies she produced the elementary bodies of I rowarek and the "initial bodies of Lindner by the morulation of certain gram negitive rod shaped organisms isolated from the conjunctiva of patients with trachoms. She believes that the inclusions in the epithetial cells organize from no dishoped march at the configuration of the inclusion body to the multiplication of this organism and the reaction of the cell.

Pillat, A Does Keratomalacia Exist in Adults? 1rch Ophih 1929 11, 255 399

Pillat states that keratomalacia is primarily a disease of the integumentum commune with its appendages the skin glands hair and nails. The epi thelial cells of the respiratory and digestive tract appear to be affected, and certain other organs of the glandular type 1e, of ectodermal origin such as the lachry mal gland, the sweat and sebaceous glands and probably the liver and the kidney, may undergo changes The extent to which the glands of internal secretion are concerned is unknown. The pigmenta tion which appears on the external skip and on the conjunctiva of the eye suggests the presence of disease of the suprarenal gland similar to Addison a disease The condition is therefore so extensive system disease in the broadest sense of the word a disease of the greater part of the ectodermal leaf of the body, which is caused by undernourishment and a lack of certain food elements especially Vitamin A In its mildest forms, this avitaminosis occurs in the eye as xerosis of the bulbar conjunctiva In its severest form it culminates in keratomalacia with total blindness and when accompanied by bronchopneumonia it results in death. The aim of further research work should be to determine the nature of the initial stages of the general symptoms It is probable that these may be studied to the mild est forms of the disease such as xerosis epithelialis with hemeralopia which is common in Europe and

The condition in the eye is a disease of ectodermal elements. This is proved by the disease of the cao

junctua and corneal epithelium the change of the former to a type of epidermis the pagmentation of the basal cell layer, and the disease of the shapers of the fens Hemeralopia is only an expression of the disease of the epithelial elements the rols and cones and of the pagment epithelium of the ritus.

Roy J N A Case of Monocular Blindness of Elec trical Origin Brit J Ophih, 1929 xui 499

A man thirty seven years of age was emosed without protective glasses to a mass of metal under the action of a strong electrical current. The it posure was followed after a few hours by acute con junctivities and after a few days by visual disturbances in the right eve

Eximination of the right eye by the author eight months after the exposure revealed a custment fesion near the disk, a lesson of the macula later narrowing of the arteries, and optic atrophy viveir. Westorn MD

EAR

Hett G S Wells A G and Levick G Vi fonization in Cases of Suppuration of the Middle Ear Proc Roy Soc Med Lond 1929 rm 15th

HETT characterizes ionization as a valuable adjunct in the treatment of suppuration of the middle car. He reports that he has found it of value ideating up a persistent discharge after radical mastoidectomy and that its results in subacute types of

outis media are often remarkable
Wetts regards sonzation as of great valat in
selected cases. He has obtained the best results
with it in certain types of chronic coordnea. He has
found that contrary to general belief the perior
tron need not he large as long as the sonning for
reaches all of the septic area. The field should be
carefully prepared by syringing and the removal of

all dédris
LEVECA. describes the technique of sonastion in
suppuration of the middle ear. The active describes
coposits of a vibration of the middle ear. The active describes
coposits of a vibration is the speculian with a fixed
coposition of the coposition of the

Grove W. E. Primary Cholesteatoma of the Tem poral Bone. Arch Otoloryngol. 1929 x 398

It was formerly thought that a cholesteatoma developed only after rupture of a drum membrane and invasion of the middle car by epithelium but it is now known that such a tumor may occur in other parts of the skull without the previous rupture of a drum

The author reports a case of histologically proved cholesteatoma in the temporal bone without pre radium irradiation of the cervical region should then be done. Larger cancers, even it readily accessible to excision may on occasion be treated by the insertion of radium needles or radium tubes either without excision or immediately followings excision with the dathermy lanife. It has not yet been deting progress or renders it less favorable. At any rate the cervacin reson should be irradiated

Lingual cancers which because of their size or close proximity to the mandible are not accessible to a radical procedure should be coagulated and then treated with radium Cancers located in the base of the tongue may sometimes he caused to dis appear by the deep insertion of radium tubes Lingual cancers infiltrating the floor of the mouth are nearly always incurable. They are best in fluenced by a combination of diathermy excision and radium treatment but recur in a very short time Hard lymph glands in the neck which are readily palpated but still movable recessitate very radical removal This is best done by the method of Crile exercis of the entire cellular mass in the neck together with the sternocleidomastoid muscle the entire internal jugular vein from the mastord process down to the clavicle and all of the contents of the submaxillary and submental regions including the lymph and salivary glands. This operation is usually limited to one side but is sometimes done bilaterally and is then performed in two stages. In sixteen such operations five of which were hilateral. the authors had one fatality

The immediate and end results of the treatment of carcinoma of the tongue by surgers and irradiation are collected from the world literature and presented

in two tables

The authors have treated thirty four cases with radium emanation needles and sadium element

tubs In twenty, immediate disappearance of the tumor was accomplished In ten cases which were traced the patient remained free from recurrence for from six to sixteen months

The most important factor in the present day treatment of cancer of the tongue is early diagnosis When the cervical glands have become involved the chance of permanent cure is very slight

V PETROV (Z)

NECK

Richter H M Thyroldectomy Surg, Gynec &

In describing his method of performing thyroided tomy the author states that the use of iodine in the treatment of thyrotocious has materially influenced, the ante operative and postoperative reactions as well as the mortality rate. He reviews a series of 500 cases with a death Ruchter emboys local infiltration amesthesia

supplemented by attroute ovaleton gen. He espatials the prebly you muscles in the midline though a transverse incrion. When unusual exposure is required be does not heistate to divide the strap russcles. The Island is delivered by the use of sharp retractors hooked into the gland which have been found of greater and than forceps. After lastion and division of the superior thytoda ve sels on each side the intimus is divided with care not on mure the trackes beneath. This procedure makes it possible to elevate each lobe and to perform makes it possible to elevate each lobe and to perform the processing of the procedure of the processing of the procedure of the process of the proc

The suther emphasizes the importance of removing as much gland as possible in the treatment of therefore the first form of the results of the subject of the would without drainings for H Guilee. Mil

sinuses are not due to that cause primarily but are the result of nerve critation from the inflamed sinus membrane. These neurogenic disturbances can be grouped as acute pains in sinus inflammation, chronic neuralizas, functional vasomotor and secretory states and systemic effects induced chefly through the trigenmial, facial and vegetative systems.

The chincal picture of savohement of the tingenual nerve may be direct as in ophthalme migraine secondary to irritation of the ethiomol nerves, or indirect from the nasil ganghon. In the facial system irritation may be transmitted from the nasil ganglion through the greater superficial petrosal nerve. In the vegetative system reflexes occur between the sympathetics of the nasil ganglion and the nerves supplying the thoracic lumbar, and sarral recons.

On the basis of these facts nerve blocking of the nasal ganglion is a rational treatment for non suppurative sinus disturbances

GEORGE R. McAULET M D

Thomson E S Conditions of the Optic Nerve Caused by Disease of the Sinuses Arch Otolaryngol 1929 x 248

The author believes that sinus disease is responsible for considerable proportion of the cases of retrobulbar neuritis plastic neuritis, and a form characterized by sudden functional depression with no change in the appearance of the optic herve The neuritis is the result of direct infection from the neuritis is the result of direct infection from is not tone. The treatment indicated in the major ity of cases is through operation on the smusy. If the operation is performed early enough the results are fundiomly good "Marron R Watzr MD

Seecol D P Vincent a Organisms in Chronie Sinusitis Osteomyelitis of the Frontal Bone Orbital Celtulius Meningitis and Pulmonary Gangrene Report of a Case Arch Olalaryngel 1920 x 384

The author reports a fatal case of Amerals angina which apparently had its origin in the thost and spread to the sinuses menuges and brain Authors vecaded chronic infection of the frontal ethinoid, and sphenoidal sinuses octomychis of the control of the control of the frontal ethinoid, and sphenoidal sinuses octomychis of the control of the control

Barwell II The Present Treatment of Inflam matton in the Maxillary Antrum and Frontal Sinus Proc Roy Soc Med Lond 1929 XXII 1423

The author states that in the treatment of maxillary and frontal sinus infections the object is to oh

tain unimpeded drainage (usually permanent) of the affected cavity into the nose. The operation rec ommended for the average antrum infection which does not respond to two or three tappines is the for mation of a large intranasal opening without sim fice of the anterior end of the inferior turbinate Very severe cases with a foul discharge are operated upon through the campe fossa. The author believes that in peither operation is removal of all of the naso antral ridge as important as some surgeons think Acute frontal sinus infection is rarely oper ated upon by the external route, but when neces sary, the author removes the entire floor of the sinus together with the antenor ethmoid cells instead of performing a Killian operation and does not pack MANYORD R. WALTE, M D.

Skillern R H Chronic Ethmoiditis Its Con servative Surgical Treatment Ann Old Rhinol & Laryngol 1929 xxxxiii 716

The basic principles of the treatment of ehmod its are acration and drainage. In simple catarish infections, the swollen and often infected middle turbinate is removed and after five days use is made of tampons of a to to zo per earl solution of a marimitating silver preparation in half water and half

In the purulent infections confined to angle cells of either the interior or the posterior group aeration is obtained by complete removal of the middle turbinate and opening of the individual cells by means of a hook and brunwald forceps

In suppuration of the entire labyrinth complete exenteration of the labyrinth followed by tamposs wet with a silver preparation is necessary for a per manent result

The treatment of the hyperplastic types of eth moiditis consists essentially in as complete removal as possible of the hyperplastic tissue and the under types but attachment. Maxione R. Ratti M.D.

MOUTH

Petrov N and Kuzmina E The Treatment of Carcinoma of the Tongue (Die Behandlung des Zungengarenoms) Veitnik Chir 1923 xm 23

The authors estimate that in Russia cancer of the tongue is responsible for 3 000 deaths jearly. In a period of one and a balf years at the Oncolorical Institute in Leningrad they saw forty one cases

The treatment is divided into operative procedures with the harfe fulgrarious by means of a diabetery apparatus and orentees to addust residution. It must be planned to the state and extend to make the planned of the process of the state and extend to make the open and the hymph glands in the care. When the corresponds were justified and a simple exploratory excuss to secure a specimen for histological examination would be equivalent to cutting out almost all of the tumor the solub should be exceeded with the kind the excession but made in healthy tissue at a distance of at fact 15% for from the lesson and prophylicatic reenings of

differentiate two entirely independent processesan inflammatory process in the abdominal cavity and a toxic process in the cauda equina The second process is prevented by division of the vagus nerves the entire danger of the pentonitis being thereby diminished

Experiments were carried out on rabbits also with regard to tuberculous infection. At first poisoning of one vagus nerve with carbohc acid, tuberculin, or scarlet fever 'town was followed by aspiration of the spinal fluid to increase the intoxica tion of the vagus nucleus in the medulla oblongata This was followed by subcutaneous or intravenous infection with a weak culture of tubercle bacilli The result was a more marked involvement of the lung on the side of the vagus mjury, which was later followed by involvement of the lung on the other side. The pulmonary tuberculosis in the animals so treated was always more pronounced than that in the untreated controls From these experiments the author concludes that the local sensitivity of the organism to tuberculosis may be increased by injuries in the central netvous system without local injury

Finally the author in association with Pono marev and Pigalev carried out experiments on rabbits with regard to cancer Local painting of the eats with tar was followed by the aspiration of the spinal fluid from the subgrachnoid space. In addition injections of thin tar emulsions were made into the subarachnoid space suboccipitally. An acceleration of the precarcinomatous changes (keratosis and papilloma formation) was noted. The author be lieves that an injury of the corresponding center in the brain is necessary for the cancerization of the epithelial cell in the living organism and that this injury should be considered the primary factor dis turbing the nervous regulation of the normal life of the cells and thereby giving rise to malignant un coordinated growth

As the chief result of the investigation which was made with hundreds of experiments the author gives it as his impression that the nervous system is involved in all local and general patholog ical processes and very often organizes them it self He concludes that the nervous system plays a much more important role in the pathology of in fection and immunity than is generally assumed N PETRO (Z)

Leavitt F II Brain Tumors in Childhood A Clinicopathological Study Am J M Sc 1929

Brain tumors occur with relative frequency in infancy and childhood

Of 350 verified brain tumors examined on the services of the Philadelphia Children's University, Episcopal and Orthopedic Hospitals I hiladelphia 23 occurred in children and of these 23, 15 were cere bellar gliomata

In most cases of brain tumor in children there is a history of a rather rapid onset of comiting and head

ache soon followed by drowsiness and signs of in creasing intracranial pressure indicated by rapidly developing papillodema with retinal hamorrhages disturbance of the gait enlargement of the head and McEnan's "cracked pot sign in infants and the localizing symptoms of the growth which may be determined by careful neurological examination

The author emphasizes the importance of earlier recognition of cerebral neoplasms in children with obscure head symptoms

The distressing symptoms may be cured or at least alleviated by surgical and electrotherapeutic

measures The usual types of tumors encountered are the tuberculomata, the congenital tumors and tumors of the glioma group Statistics of recent date compared with those of twenty years ago show a decrease in the frequency of tuberculous growths. In the 350 cases reviewed there were only 2 tuberculomata These occurred in children The congenital tumors (adenomata) are generally suprascllar lesions and produce symptoms of dyspituitarism. The glioma group, particularly medulloblastomata, spongio blastomata and astrocytomata constitute about 75 per cent of the new growths in pre adolescent brains and 40 per cent of all brain tumors In childhood they usually occur in the midcerebellar region aris one from the roof of the fourth ventricle and prosecting into the vermis. In this situation they are in the most critical position to endanger life and produce an early internal hydrocephalus by pressure on the ster Numerous cases reported in the literature in which apparently idiopathic hydrocephalus de veloped were found at autopsy to be cases of micro scopic ghomata occluding the iter The meningi omata acoustic tumors, and endotheliomata so com mon in adult life are quite uncommon in childhood The 'fetal test theory of the genesis of neoplastic

growths is supported by the identical occurrence of cerebellar tumors in monozygotic twins

LAUTH HOLCE M D

Bailey P and Bucy P G Oligodendrogliomata of the Brain J Path & Bacteriot , 1929 XXXII 735

The authors trace the discovery of the pligoden drogtia as cells of the normal nervous system as well as cells forming gliomatous tumors. They discuss the normal and pathological characteristics of these cells the methods by which they are stained and their relation to astrocytes neuroglia, and other cells They then report four cases of obgodendro ghoma in detail and present data concerning nine others

Oligodendroglial tumors have thus far been found only in the cerebral hemisphere but may occur in any part of the central nervous system They develop most frequently in adults, but have been found also in children They grow very slowly, the aver age duration of the symptoms at the time operation is performed is fifty seven and a half months They are relatively benign, the average survival after operation being thirty nine and two tenths months

SURGERY OF THE NERVOUS SYSTEM

BRAIN AND ITS COVERINGS, CRANIAL NERVES

Speranskij A The Mechanism of Segmental Brain Affections and Their Importance in the Pathogenesis of Certain General and Local Processes (Other den Mechanismus der segmen taeren Gehranflektionen und dessen Bedeutung in der Pathogenese einiger allgemeiner und lokaler Protesse) Letinik Čart 1920 vs. 143

This article reports a large number of experiments carried out by the author and his co workers on animals to determine more exactly the past played by the central nervous system in different processes running a local course. In previous meetingations the author demonstrated that the fluid () jumph ?) in the peripheral nervie trunks empires into the excretionizability and that the fluid () jumph ?) in the peripheral nervie trunks empires into the excretionizability and and that the affected flow of the excretionizability accelerated by loneang the pressure as the prepared programment of the pressure as th

When for example a 10 per cent emulson of the fixed virus of rabies is injected in amounts of 30 c cm Into the musculature of dogs, the dogs will re main healthy but it after the injection of the virus repeated suboccipital aspirations of the somal fluid are done, about two-thirds of the dogs subjected to the injections will become afflicted with rabies. If equal amounts of tetanus toxin are injected into the musculature of the legs of two dogs and one dog remains lying on the floor of a low cage while the other draws around for a few hours a small wagon loaded with stones the second dog will become affected with teranus much eather and roore severely than the first dog If equal amounts of a carmine emul sion are injected into the triceps muscle of the leg of a dog on both sides and one of the legs is Lept at rest while the other is subjected to electrical stimulation for hours (increased pressure at the periphery) the entire sciatic nerve on the stimulated side up to the spinal cord will be stained whereas on the unstimu lated side the stain will he found along the nerve for only a short distance. The nerve trunks have an affinity for various substances, which therefore reach the central nervous system directly. If for example solutions of atoxic salts (such as sodium phosphate huffer solutions) are injected intravenously into dogs or rabbits no signs of intexication are observed hut if even smaller amounts of the same solutions are injected into the muscles which derive their innervation from the cauda equina the animals will develop very pronounced symptoms of iliness such as dyspnora, muscle contraction trem hling and salivation Subdural injections of these substances lead to severe spasms and death

Various and numerous experiments have fed the author to conclude that all tone infections (write fever, diphtheria tetanus and dyseatery) jupic the central nervous system primarily and that all peripheral disease foot are to be considered scondary manifestations of these nerve injuries.

The fact that the action of junes of the following their interactions to be following their interaction in a following their interaction in the following their interaction into their following their interaction into the following their interaction into the following their and their interaction interaction into the interaction interaction into the answer laws sooner and are transported in them to the arrows system. He suggests that in severe cases of the thermal system is the suggests that in severe cases of the thermal stransported in them to the arrows system. He suggests that in severe cases of the them is may perhaps be advantageous to night the antition not only intravenously but also undo in muchaes of the face and neck as the nerve traction these muscles (the temporals muscles, purposed) and streamously dely face to the visually and streamously dely face to the visually and streamously dely face to the visually of the sound of the medial solutions and streamously dely face to the visually of the medial solutions.

Experiments on dogs carried out by basewing one of the authors or owners demonstrated the nervous origin of local ulcers. Vision-vision was table to produce there on the pass of both legs in symbolic trial locations by injecting the divided stanks care and subsequently aspirating the cerebrospial fluid Accordingly the basis of such 'trophic ulcers as segmential injury of the spinal cord'.

In a similar nay it has been possible for the author in collaboration with Manethov to produce so-called "an oppathetic inflammations" of the steril and sogs. Small particles of non sterile copper sure was nationated mino the anterior chamber on the steril and the sterile copper sure was nationated in the sterile copper sure was nationated in the region of the back of the each every second or third day in order to accelerate the affered flow of the touch fluids along the sterile tracts to the brain. The animals developed intopy after fine passophishmins in the superior of the fluid passophishmins in the superior eye also became in volved, abowing first a personneal superior and then diffuse clouding of the corres.

With Boundaine Popules, and Manenlow the author was able to demonstrate also a very distinct relationship between supportative personative and the central nervous system. The experiments were carried out on rabbits with a definite strain of strycoccus. From 1700 to 1760 ccm of a pure caller killed every animal in from ten to trader shaller its intraperstoneal inoclean. Of both with the prepared high proved more resultant which were prepared in 1900 proved more resultant and the streptococcus infection of the personal cavity in spate of their poor general resistance than anomal rabbits. Therefore in personals we may be a support of the personal cavity in spate of their poor general resistance than anomal rabbits. Therefore in personals we must be considered to the personal cavity in spate of their poor general resistance than anomal rabbits.

gomyclia memagovascular svphils of the cord adhesive arachmoditis amyotrophic lateral scle ross Hodykin sdisease of the cord multiple myelo ma aneurism of the aorta pachymeniagitis hypertrophica cervicalis cervical in Pott's disease hypertrophic arthritis and spondylitis and vascular lives

Cauda equina tumors are briefly discussed, the au thor stating that their symptoms are essentially those of peripheral nerve involvement

DAVID J IMPASTATO M D

Alajouanine and Pettt Dutaittis Compression of the Cauda Equina by a Tumor of an Interver tebrat Disz. Removat Followed by Recovery (Compression de la queue de cheval par une tumeir d un disque intervertébral ablation surve de guen son) Bull el mêm Soc nal de chir 1979 by 937

The patient whose case is reported was a man of thirty-seven years who came for treatment for scientica. About four years previously he had been confined to bed with pain in the lumbouscraft region and in the region of the left leg which is supplied by the sciatir here. He attributed this stick, to the litting of heavy weight. A few month state the senties coursed and persuate of less per manent. Iumbouscraft pain, with acute exacethations. He had suffered almost continous pain for a year and his sipilal column had become night. During the past few months he had limped and his left leg had been west. The pain stopped when he lay down but began again when he stood up for a few minutes.

Examination revealed contracture of the lum bosaeral muscles on the left side and slight scoliosis of the lumbar column. When the trunk was flexed the lumbar segment remained rigid and there was marked flexion of the lower limbs I ercussion of the spinous processes caused moderate pain over the fifth lumbar vertebra. On the right side the tendon reflexes were normal but on the left the Achilles tendon and plantar reflexes were abolished and the patellar reflex was decreased Painful points were found along the scratic nerve and Lasegue's sign was observed inasthesia for touch pin pricks and heat was present in the region of the sacral roots and up to the third lumbar vertebra patient complained of a feeling of weight in the feet painful coldness of the leg with slight this turbance of the sphincters and decreased genital function in short the syndrome of a lesson of half of the cauda equipa

Lumhar puncture withdrew a clear fluid contain no year of albumin and two cells per cubin emits more year of albumin and two cells per cubin emits meter and having a negative colloidal hencon and Wasserminn reaction. The rontegenogram showed may be considered to the college of the language of the college of the college

continuous with the wing of the sacrum with which it articulated. A first test with lipited was negative but when a second test was made the lipited stopped at the lower horder of the fifth lumbar vertebra to the left of the midline and the arrest persisted for three days.

As the authors did not believe that the vertebral maiformation could be responsible for the signs of injury of the caudic presponsible for the signs of injury of the caudic present the caudic cruza and performed a temperature of the fourth and fifth lumbar and first sacral vertebra? A small tumor was found on the intervertebral disk between the fifth lumbar and first sacral vertebra? Thus was removed Histological examination showed it to be fibroid with no thirdlishest and no trace of neoplastic or in flammatory growth. It was possibly not a true tumor but only a malformation of the disk.

The patient recovered rapidly, and the signs of compression of the cauda equina disappeared

ROBINEAU, who read this report to the Society described two similar cases of his own criticized some points in the procedure of Alayouanne and 1eth Duataillis and discussed some of the details of the technique of hirodol examination.

AUDREY G MORGAY M D

Owen II R and Fay T Chordotomy for Gastric Crises Compticated by Acute Intestinal Obstruction Aus Surg 1929 to 434

The chordotomy in the case reported by the authors was performed under local anækinesa with the neurologist standing by to determine the extent of analgesia produced as the kinfe cut successively deeper into the cord in the region of the anterolateral columns. Analgesia with partial therm anæsthesia was obtained on the right side of the body as high as the nipple hie and on the left side as far as the hip. The area of anæsthesia rose higher as the measton into the cord was deepened and it appeared that the pain and temperature sentes were represented by separate pathways in the cord.

After a month a freedom from pain, the patient of eveloped intestinal obstruction. For this condition an exploratory laparotomy was done on the right sade Anesthesia was unnecessary Manpulation and opening of the parteal personneum gave rise to a pain, whereas the visceral personneum was pain ful. From this evidence it is concluded that pain fibers to the street aprentice masses the third that ally in the cord or unlaterally in a segment above the third thoract.

PERIPHERAL NERVES

Guresic Disease of the Peripherat Serve Trunks in Endarteritis Obliterans (Zur Trage der I strankung der penphenschen Servenstamme ber oblitenerender Endarteritis) Med Mysil 1928 43

In all of seven extremities which had been am putated on account of endarteritis obliterans the The tumors are almost invariably calcified and are easily visualized in roentgenograms especially when the Potter Bucky diaphragm is used DAVM J IMPASTATO M D

Dock G Sluder's Nasal Ganglion Syndrome and Its Relation to Internal Medicine J 4m If Ass 1929 xxxx 750

Because of the varying nature of the Sluder syn drome patients with this syndrome often apply for treatment first to the internist or general practi tioner The condition has two main forms the neuralgic and the sympathetic. In the former there is pain or paræsthesia in various parts of the face and head and sometimes in the neck and shoulders In the latter the manifestations are usually rhinor rhoea coryza sneezing nasal obstruction swelling and irritation of the mucous membranes swelling of the cyclids and photophobia. In some cases the condition suggests non seasonal hay fever or even asthma All of the symptoms yield to concainization of the nasal ganglion. The patients are frequently neurotic, but as a rule present none of the stigmata of hysteria

The article is concluded with a consideration of the anatomy and pathological processes in the ganglion both proved and speculative

SPINAL CORD AND ITS COVERINGS

LEO M DAYMORE MD

Forguz E and Laux G Anatomical Details of the Relations of the Nerve Roots in the Lumbo acral Subarachnoid Space (Quelques protessors anatomique; ennermant les rapports des raches nerveuses dans l'espece sous arachnoiden lombo sacté) Prister mil Far 1949 xxxvi 855

It is important in lumber puncture and the in duction of spinal anaesthesia to know the segmental topography of the nerves of the cauda equina with relation to the walls of the arachnod-dural space This is best demonstrated by successiva transverse sections of the lumbodorsal cord. The authors in

clude photographs of such sections in their article The sections show that the nerves of the cauda equina are arranged in two planes one on each side which pass out from each other obliquely in a fan shape as they run from their origin to the foramina through which the nerves make their exit from the canal The two planes of roots form the lateral boundaries of an anterior space that in the lumbar segment of the cord is filled only with spinal fluid Accordingly, in the lumbar segment, and par ticularly at the level of the fourth lumbar space a needle introduced exactly in the midline will enter this space without injuring any of the roots There are doubtless individual variations and the curva ture of the body in lumbar puncture tends to bring the two laming closer together but if a good technique is employed the needle heing introduced exactly in the midline lumbar puncture is usually safe in the fourth third and second lumbar spaces AUDREY G MORGAN M.D.

MacGregor D A The Diagnosis of Tumors of the Spinat Cord West Vergens M J., 1939 xx 513.

Spinal cord tumors are relatively rate. They may

statute only from x1/2 to 2 per cent of all neofaste lessions. According to Frazier, an average time of two and two-fifths years elapses before a definite diag nosis 13 made. Such tumors may occur at any age and may be divided into

I The extradural or paravertebral tumors, lyan

outside the spinal dura mater

2 The intradural, extramedullary tumors lying within the dura mater but outside the substance of the cord

3 The intradural, intramedullary tumors lying within the substance of the card

The Intradural, extramedullary group which con stitutes about 70 per cent of all cord tumors, are the most amenable to surgery and offer the best prog nosis. The extradural and intradural intramedullary tumors have an incidence of 15 per cent each and

offer a less favorable prognosis In the diagnosis of spinal cord tumor the sumnesss is of first importance. To help in its interpretation the course of spinal cord tumors is divided into three stages namely (r) the irritative stage (2) the stage of beginning compression and (3) the stage of marked compression. It is in the imitative stage which is the longest that the symptoms are most often misinterpreted The symptoms in this stage depend on the location of the lesion. Pain it not a constant symptom of cord tumors A tumor situated anteriorly will cause symptoms of anterior root irritation but no pain. In the other stages of the development of spinal cord tumors gross sensory and motor manifestations appear and the diagnosis is made more easily

When the history and sequence of events indicate a focal spinal cord lesion causing compression exist localization of the lesion hecomes imperative Local ization is saided by the following procedures

r The neumlogical examination. This still remains the most valuable method. Fay's method focalization by observation of vasomotor and pilomotor phenomena may be of considerable value.

2 Lumbar puncture and manometric studies of the cerebrospinal fluid pressure

3 Ayer's combined cisternal and lumbar puncture
4 Visualization by means of (a) Dandy's air

4 Visualization by means of (a) Dandy's an method and (b) hipsodol or campiodol

5 Exploratory laminectomy 6 Laboratory aids examination of the spinsl fluid and urine reentgenograms of the spine studies of the blood chemistry and serum and microscopy

Two aspects of the action of the three vanctus of speed conduction of the three vanctus of speed cord tumors and the differential diagnoss as reasonable conductions. In the early stages of cord tumor the conductors to be rule countries of the conductors of the con

MISCELLANEOUS

Penfold W J and Price C A E The Refractive Index of the Cerebrospinal Fluid Med J Aust tralia 1929 11 424

The authors state that the determination of the refractive index of the cerebrospinal fluid seems to offer definite possibilities in the diagnoss of certain diseases. To test its value they examined a series of normal and diseased fluids using a Zeiss dispung rafractioneter with an accessory prism for the examinanation of very small quantities of fluid. The observations were made at a temperature of 17 g deep C in a water bath and were always read by day light.

In normal adult spinal fluid the average reading was found to be 1 33510 and there was much less variation between high and low limits than is shown by other body finds. The average reading for seven children was 1 3350S. A marked rise in protein concentration is associated with a rise in the index, while a moderate rise may not be associated with a rise in the index because of the compensating effect of an accompanying fall in the chlorides.

accompanying fall in the chlorides
Deviations of more than 0 ocooss above or below
the normal average index should be regarded as
pathological A definite rise in the index was found
in cases of urarma and diabetic coma Meningitis
was usually but not invariably, associated with a
high moder. In cases of intracranal I convois the
high moder in the convoice of the convoice of the
and anterior pollomy, ellist it was practically normal
Spinial block was easily detected by comparing the
index of accessional and lumbar fluids. The use of the
index of casternal and lumbar fluids. The use of the
index of casternal and lumbar fluids. The use of the
fluids indexised.

author found changes in the walls of the blood vessels supplying the nerves. In every specimen all stages of the obliterating process were in be noted fn the large vessels the obliterated fomen was often penetrated by new vessels which not infrequently were also involved by the pathological process

In the epineurium there was an exuberant growth of the vessels some of which were pathologically changed in some places there was a marked pro

liferation of connective tissue

The obliterating process was not equally de veloped in the blood vessels and the surrounding tissues in all cases. When the blood vessels were in jured most the clinical picture was that of a mailed nervous affection

The author studied twelve cases of sciatica. In five there were definite symptoms of endarteritis obliterans but in three only weaker pulsation of the dorsalis pedis artery on the affected side was demonstrable and in four there was no indication of endarteritis obliterans Therefore it must be borne in mind that in certain cases of disease of the periph eral nerve trunks the underlying condition is endartentis obliterans These cases should be classified separately L BANNER VOICE (Z)

Rose G The Observation of Ganglion Cells in a Neurinoma of a Peripheral Nerve (Ueber die Beobachtung von Canalienzellen in einem Neurinom eines peripheren Nerven) Deutsche Zische f Chie. 1020 CCXV 409

In the ease of a fifty eight year-old patient the author removed a neurmoma of the median brachtal eutaneous nerve which had developed in the course of the previous year Besides the usual well known cells the tumor contained others which had the appearance of fully developed ganglion cells. This was surprising as ganglion cells in neurinomata usually occur only at sites where they are normally present In the tumor described they must have been newly formed where they were found. The author advances no theory as to their formation II AISSEL (7)

SYMPATHETIC NERVES

kiss F and Ballon H C The Cerliac Plexus and Its Branches 1rch Surg 1020 XIX 300

In describing the carliac plexus from the stand point of modern surgery the authors discuss the roots branches and microscopic structure of the coehac gangha and the plexus of nerves going to the various abdominal organs Attention is called to the descriptions and illustrations of the procreatic and duodenal plexuses which have never before been illustrated In microscopic study the same types of fibers are found in the spfanchuics vagi branches of the collac plexus viz non medullated (sympathetic fibers) thinly medullated (sensor, fibers in the splanchnics parasympathetic in the vagi) and solitary fibers with thick medullars sheaths (motor fibers) It is most important to the surgeon to know that the sensory fibers to the collac

pfexus run in the splanchnic nerves Fewer medul lated fibers are found in the hepatic and mail plexuses than in the branches of the supeno and in ferior mesentenc plexuses

A block anasthesia of the splanchus never on both sides gives the same result as infiltration of the cocliac ganglia with their uniting branches Such an esthesia can be obtained with a single injection because the nerves and ganglia he in loose retropen toneal tissue

Since the rich hepatic and pancreatic plexises be

in the field of many surgical procedures important fibers may be easily damaged

Because of the intimate relationship of the tanous plexuses to one nnother and to the centrally placed corliac plexus certain lesions involving in hyidual plexuses such as the hepatic or the pancreatic may have their signs and symptoms reflected to other Certain disturbances referable to the duodenum and pancreas after operations on the gall bladder may be explained on this basis

KNUT H HOTER MD

Leriche R and Fontaine R Some New Facts Regarding the Normal Anatomy of the Sympa thetic Based on the Histological Examination of Forty Operative Specimens (Quelques fatt nouveaux touchant I anatomie normale du sympt thique basés sur l'examen histologique de quarante pièces opératoires) Presse méd Par, 1919 remu

Twelve of the specimens described in this article came from the intermediate ganglion thirteen from the cervical chain eight from the lumbar chain four from the pre-aortic chain and three from the presacrat chain Jonnesco claimed that the inter mediate ganglion which is interposed between the middle cervical and stellate ganglia is only an en largement of the nerve trunk and not a true gangion but in all of their twelve cases the authors found it to be a typical ganglion containing many ganglion cells with a microscopic structure just like that of the superior cervical and stellate ganglia. More over, throughout the different nerve trunks they found true ganglion cells either in groups or scat tered Accordingly, the sympathetic chain a not formed of twenty two ganglia (three cervical eleven thoracic four lumbar and four sacral) and tweat) nne internodal branches but is really a continuous ganglion The sympathetic nerves of the abdominal plevus all contain ganglion cells in varying numbers and sometimes even little ganglia that are viable macroscopically

These facts are of importance not only anatomical ly but also phy stologically Langley based his theory of aron reflexes on the fact that bladder reflexes are preserved even when the inferior mesentene ganglion is painted with nicotin which suppres ses its function. This argument is no longer valid since as the reflex may be produced by ganglion cells in the course of the nerve it is a true gan-AUDREY G MORGAN M D

glion reflex

place principally in normal bronchi and the spasm and contraction occur only in normal bronchi. In pathological bronchi neither bleeding nor the in jection of lipiodol brings about atelectatic collapse

Cocke G II Massive Atelectasts A England J Med 1929 cc1 867

Massive atelectasis was first described by Pasteri in 1896 but its cause is still unknown. It is assert ated with a markedly increased negative intraplemal pressure, whereas in pneumotherar the intraplemal pressure is positive. In massive atelectasis the lung does not leave the chest wall although its volume is lessened by elevation of the disphragm and sinking and retraction of the rish The pull is always lost and the affected side whereas in pneumothorar the pull is anay from the affected side. Yay examination in atelectasis shows a homogeneous density resembling that seen in pneumonia.

Massive stelectasis has been found as a complex tion of pneumonia diaphragmatic pleuros, acute pulmonary abscess purulent bronchitis acute meningitis acute poliomveltitis aneurism of the arch of the aorta and carcinoma of the stomach

The author believes that while bronchial obstruction is probably one of the chief factors in the development of the condition paralysis of the diaphragm is also of importance

ERREY I GREENE M D

Bérard L. and Guilleminer M. Heroie Thoracec tomy in Open Empyema in Pulmonary Tuber culosis (La thoracectomic hérosque dans l'empyème quert des tuberculeux pulmonaries). Presse méd

Par 1020 2111 803

When a tuberculous empy sma is opened apon tannously by a bronchial perforation or a fistula directly on the slan the only effective treatment is thoracectomy. As a rule especially when the accident occurs in the course of an artificial pneumo thorax there is more or ties rapid and sever infection of the pleura. Patients with this condition are taken, bent to the surgeon early and are usually such sent to the surgeon early and one usually and the condition of the condition of the of the thorax is often infected from fixtule following puncture and the pleurat cavity is lined by a shell

of lardaceous tissue which is frequently very thick

The authors have operated on twenty such cases in the first four which were treated in the year 1922 to 1923 they performed only a parawereheral 1922 to 1923 they performed only a parawereheral in the next in the which were treated in the series from 1923 to 1925 they tired different methods of from 1924 to 1925 they tred different methods of fruings and practiced puncture or pleuronously before the thoracoplasts. In the list eleven cases they performed a progressive operation in several stages to the proposed of the pleura. In this performed as progressive operation in several stages are reported to define the prosperative death.

Among the twenty cases there were five very good results after periods ranging from a year to six and a half years. In two cases the results were good at first but after several years the disease became

bilateral In three cases death occurred after periods ranging from a day to a few weeks and in four cases it occurred after several months. Six patients are still under treatment and are doing well

The authors believe that operation will be successful more frequently when it is performed more often in cases of recent perforation and less often in cases of old open emprema. They strict that patients with closed emprema and tuberculous should he sent to the surgeon as soon as the clinical and the roentgen examination show that medical treatment has failed

They prefer local twesthesia for the typical operations (thoracoplasties) and general anesthesia in duced with Lelene for the atypical operations (pleu rethoracetomies)

ADDRY G MORGY MD

ESOPHAGUS AND MEDIASTINUM

Tuffier Castro Exoplangeat Anastomosis with an Intertinal Loop in Strictures of the Exophagus the Roux Operation (A propos de lanastomose gastro ocophagenen par anse intestnale dins les rétricassements de l'ocsophage opération de Roux) Buil et mên Soc sui de chir 1909 19 737

In six cases of casophageal cancer in which Tuffier performed the Roux operation he did not succeed in anastomosing the upper portion of the casophagus and the intestinal loop either because the patient was satisfied with the first operation or because the eachers of cancer presented further surgery in because attempts at suture failed and a cervical ecoholacocitaneous fistula remained

The first stage of the operation—resection of the small intestions the bratton of the skin up in the neck, anastomosis to the stomach and the passing of the loop the length of the thoray—is relatively simple but bringing the parts together above is difficult in the six cases reviewed there were three deaths and stage of the operation. Rour recommended and stage of the operation. Rour recommended such as the stage of the operation of the commended stage of the operation of the commended stage of the operation of the commended stage of the operation of the operat

Robertson Sir C and Brown R E B Dermold Cyst of the Mediastinum Brit J Surg 19 9 xvn 197

The authors report the case of a woman who sought treatment for parsy saw of coughing during which she frequently coughed up hair. At the time of eximination she had a temperature of 101 degrees F and was coughing up 1 ellow granules and hairs F and was coughing up 1 ellow granules and hairs F and was coughing up 1 ellow granules and hairs of the modern and the chest for the same of the coughing up 1 ellow granules and hairs of the modern and the chest for the same of the same of the chest for the same of the same of

SURGERY OF THE CHEST

CHEST WALL AND BREAST

Smith G van S, and Marks G A Benden
Tumors of the Female Breast A Clinical
and lathological Study of 201 Crees Treated
Between 1875 and 1972 at the Clinic of the
Free Hospital for Women Brookline Massa
chusetts Surg Cyne & Obs 1992 hir 156

The authors classify henign tumors of the female breast into the following four groups

I eviductal fibroma a condition in which there is a distortion of the epithelial elements of the gland by the growth of the connective tissue stroma mainly the penductal tissue.

2 Fibrocystadenoma or fibro-adenoma a tumor which is quite similar to the periductal fibroma but is cystic, very often only microscopically, with dilated acin

3 Papillary cystadenoma a tumor with definite cyst formation and proliferation of the epithelial lining into papillar

4 Chronic cystic mastitis

The majority of the authors patients with periductal fibroma were under thrivy ears of age all of those with fibro adenoma were under thriv five years and most of those with popullary cystadenoma and chronic cystic mastitis were over thirty five years

SAUCEL PERION 'UD

TRACHEA, LUNGS AND PLEURA

Stenström B Carcinoma of the Traches with Paralysis of the Right Recurrent Laryngeal Nerve (Carcinome parti de la trachée et a acom pagnant de parésie du nerl recurrent droit) Acts med Scand 2020 [st. 28]

The author calls attention to rants of carcinoma of the traches reviews the twenty two cases which have been recorded in the literature and reports a case of his own Tifteen of the twenty two patients whose cases are reported in the literature were men The average age was forty five years The usual symptoms were cough sometimes accompanied by hamopty sis and dy spnora. In two cases there was boarseness In thirteen the symptoms had been ptesent for a year or less Death was usually due to asphyxia or pneumonia In fifteen cases the tumor was at the level of the bifurcation of the traches in 3. In the middle portion and in 3, in the upper portion In one case it occupied the whole length of the trachea It was limited to the trachea in only six cases Histologically it was composed of squa mous or cylindrical epithelium or both

The authors case was that oI man sixty four years of age who, in April 1918 began to have a persistent cough without fever and became hoarse in July, 19 8 he began to have pain in the neck and

right shoulder Although he demed syphile, he Wassermann reaction was slightly positive. It diagnosis of aortitis and aortic aeursism was make and he was given anti syphilis treatment. He devel oped paralysis of the right arm rales and fever and died December 26 1938.

and December 26 1938
Autopsy released pneumona moderate and
Autopsy released pneumona moderate and
from the bettern did not contained to the
from the petition of the contained to the
petitianed it issues the tumor composed the
right recurrent laryageal mere and minitared the
vall of the complangus Histological enamated
showed it to be made up of elongated or polyhedri
epithelial cells arranged an irregular strands and
annular formations. In places the picture recentled
that of a beast celled opinhelion. The throne
had its origin in the gland of the trached missis
had its origin in the gland of the trached missis

Bettman R B Kelly J and Crohn \ The Fflect of Intrabronchial Injections of Iodustal Poppy Seed Oil 40 Per Cent An Experimental Study on Does Arch Sure 1919 no 471

The instillation of 40 per cent todized poppy seed of into the bronchial tree of dogs was not followed by pneumona nor any acute cellular traction. Most of the oil was rapidly expelled by coupling but small amounts were returned for at least seven months. The presence of the oil did not cause a demanding foreign body reaction. Faxax B Benry MD.

Jacoborus II C Selander G and Westermark, h A Study of Acute Massive Atelectatic Collapse of the Lung Acta med Stand 1929 1 tu, 439

The authors report their findings in three case of acute measure collapse (two complete and ose partial) occurring alter hamoptysis in acute pul monary tuberculosis two cases of collapse size the injection of hipodol into the broatch. In all six group it was possible to follow the decimal of appearance of the collapse size that the pulmonary collapse that the pulmonary collapse have discovered to the collapse and in expension of the collapse caused by inpost course in the course of from the not fifteen must be occurs and the course of from the not fifteen must be course in the course of from the not fifteen must be course in the course of from the not fifteen must be course in the course of from the not fifteen must be course in the course of from the not fifteen must be course in the course of from the not fifteen must be course in the course of from the not fifteen must be course in the course of from the not fifteen must be course in the course of from the notified must be course in the course of from the notified must be course in the course of from the notified must be course in the course of from the notified must be coursed to the course of from the notified must be course in the course of the course o

As the degree and extent of the collapse bears no direct relation to the lipiodol filling of the bronch the authors assume that the cause is not the lip odol alone but the combined action of the lipiodol and

a spasm or contraction of the bronchi Their experience so far indicates that acute

1 atelectatic collapse of the type described takes

SURGERY OF THE ABDOMEN

ABDOMINAL WALL AND PERITONEUM

The Hypertrophy of Fascia Oughterson A W and Its Use in the Repair of Large Scrotal Hernize Surg , Gynec & Obst 1929 xhr 387

In 1903 Ifalsted called attention to the marked hypertrophy of the cremaster in large scrotal hernix of five or six) ears' duration and suggested the use of this muscle in the repair of such hernia. Oughterson calls attention to (1) the hypertrophy of the fascia with an increase in its tensile strength (2) the wide origin of fascia throughout the entire circumference of the hermal ring and (3) the fact that all layers are already attached to Poupart's ligament and there fore provide a natural first line of defense inde pendent of sutures and the hazard of uniting On the basis of these observations he describes a method of repair in which Halsted's use of the cremaster muscle is amplified to incorporate the combined fascial layers when the latter are rendered suitable by WILBUR BAILEY MD hypertrophy

McGregor A L The Third Inquiral Ring Sure Gynee & Obst 1020 xlix 273

The author desembes in detail the fascia of the lower abdomen the scrotum, and the permeum as he

found it in twenty dissections The complicated method whereby the scrotum is slung is analyzed and throws some light on the cause of the inequality of the rate of growth of bernia The descent of the testicle is traced from the original position on the posterior abdominal wall to the serotum. The opening through which the testicle gains admittance to the scrotum after having possed through the narrow defile formed by the inguinal canal is called by the author the third inguinal nng In the adult it is situated immediately to the side of the midline and from 1/2 to 1 in below the horizontal level of the upper border of the body of the pubis and the external inguinal ring. In the fetus it is immediately below these structures definite ring is present only when the reflected process of Scarpt's fascia forms a well marked ligament. If this is absent the outer boundars of the ring is missing

No evidence was forthcoming in the investigation to lend the least support to the supposed exca vating function or the supposed traction function of the gubernaculum

The literature on imperfect extra abdominal testicular descent is reviewed and an anatomical explanation for this defect is advanced. The author at tributes partial descent or ectorua to one or more of the following factors (t) congenital anomalies or absence of the third ring (2) congenital fascial pockets and (3) congenital fascial ridges. The

various types of ectopia are described in detail and explained on an anatomical basis

WILBUR BAILEY, M D

Salzer, II When and How to Operate for Inquinal Hernia in Children (Wann und wie sollen wir die Inguinalherme beim kinde openeren?) Il ien klin H chuscht 1920 1 674

There is still considerable difference of opinion as to bow inguinal hermize develop in children and as to when and how they should be operated upon On the basis of the anatomical observations of Tandler. Woshere Sachs and Enderlen, which showed that in about 70 per cent of newborn male infants the processus vaginalis is still open, and on the basis of his own findings at operation on more than 1 000 hernin in children, the author has come to the con clusion that inguinal hernia in infants and children

is always indirect and congenital and not acquired With regard to the treatment, he states that high removal of the hermal sac is sufficient. A plastic operation on the muscle may favor the later develop ment of direct inguinal hernia by causing muscle atrophy Operation should not be considered before the end of the first year unless the berma interferes with the child's development or becomes incarcer ated It is usually impossible to obliterate the proc essus vaginalis completely by a truss and unless this is done an area favoring hermia remains Funicular hydrocele should be treated surgically at the same time as the open processus vaginalis. In cases of cryptorchidism the testicles should be implanted in the scrotum if this can be done without tension otherwise they should be implanted in the abdominal cavity in order to preserve their endocrine function HOLM (Z)

Coley W B and Hoguet J P Retrocacal In ternal Hernia tun Surg 1929 xc 765

The anatomy of the peritoneal fossa is reviewed The retrocolic fossa is one of the sites in which in ternal herman develop. Such herman usually cause symptoms when partial or complete strangulation of their contents occurs

In a case reported by the authors there had been several attacks of pain in the right lower quadrant of the abdomen When pressure was made on the right side midnay between the costal arch and the iliac crest the sensation of the slipping of bowel or omentum through a ring was felt and when the pressure was released the return of the bowel or omentum was suggested A diagnosis of retro peritoneal hernia was made and subsequently proved at operation Since repair of the defect the patient has been free from all pre-operative symptoms

PAUL II GREELEY MID

As a rule, dermoid cyst of the mediastinum causes death within from one to four years after the onset of the symptoms unless operation is performed. It is generally agreed that complete excision is the only satisfactory treatment.

The nuthors include in their article a tabulation by Beve of 119 cases and a tabulation by Unrouses of eight five cases. These statistics show that treat ment by simple incision and dramage has a high mortality. J Panns Bockerry M.D.

Heuer G J The Surgery of Mediastinal Dermolds

Ann Surg 1929 xc 892

Mixter C G and Clifford S H Congenital

Mediastinal Cysts of Gastrogenic and Broncho genic Origin Ann Surg 1929 xc, 714

I mm an expenence with four cases of mediastical dermoid and a review of the iterature. Hence concludes that in cases of uninfected dermoid the approach should be made by a long intercostal necision with or without resection of a nb and that in cases of infected dermoid of restorman is should be such that the infected lesion may be boalted from the surrounding structures an approach perhaps effected best by multiple nb resections. He believes that in cases of complicated infected dermoid and teratoma it is advisable to uttempt to clear up the infection before removate the lesion.

In cases of simple unifected and othersase un complicated mediastinal dermond total removal is undoubtedly the treatment of choice since according to the literature it has been followed by the highest incidence of cure and the lowest mortality. In cases in which it is impossible because of extensive calculcation, indication or adhesions or its valentiable bethe surgeon must be content with incomplete extripation, but even this operation has given good results.

If the telever that in one of his cases the communication of the dermoid with a large bronchus was responsible for the patients death. He concludes that under such circumstances the dermoid should be removed through the thorace wall if possible, and removed after the lung has become

adherent to the parietal pleural around the point of

In cases of uninfected dermoids dosure of the thoracic wound should be complete and air to ht. In the literature there are reports of many cases in which drainage or tamponade of large cautes lift after the removal of the lesion was done with un satisfactory results. The cavity became infected and, if the nationt survived multiple thoracoplistic operation were necessary to obliterate it mais lescence was greatly prolonged and an unsightly deformity resulted It has been noted by most observers that pleural effusion is a common sequela of tumor removal This may be treated by aspira tion or, if infected by continuous air tight suction drainage. The drainage should be established not through but at a considerable distance from the closed thoracic wound. When this is done the result may he as satisfactory as in simple emprema

may ae as stitisticity is in stands tempress and Mixters and Curroso report lines endered casts of the mediastimum two of gastroguca compand one of broachogeue organ. The symptom diphystal findings were similar to those in such intrahlorates deemed and teratomatous growth is the same location. The find what has syntheted from the Cysts was white viscol and seutrans-

parent
Histologicalls, the two gastrogenic cvits present
a typical section of the stomach will abrong a
mucosa with glands continuing ched and paradi
cells a submucosa a circular and a longuidean
layer of smooth muscle and non especimen
serous and sympathetic nerve cells. The will of a
bronchegenic cyst was composed of abrous tame
which was lined by epithelium partly cilistif and
incorporated a small amount of cartaige and sex-

smooth muncle

These tumors may have their origin in a pinching
off of an out bud from the foregut at the time of the
development of the lung hads in the 4 mm embro

development of the lung backs in the 4 min. can't the treatment of eysts of the mediastinum is preferably extirpation in one stage. In some cases preliminary drainage may be indicated. Though the mortality of operation is high sungery official the only hope of cure. [Acon M. Mar. M.D.]

Garin Froment Arme and Delorme Castrice Secretion Hrowled by the Simple Presented Secretion Trovided by the Simple Presented From Enhant Tube in the Digestile I assages The Excitation While Elleis the Secretion Reflex Appears To Be Produced at the Level of the Phrysta, Secretion gastrous; proceedings of the Private Court sound of Embora data is well as the Secretion Fraits produce an unwant during the Private P

The authors found that if the Einhorn tube was allowed to remain us place after the stomach had been empited of gastine junce as completely as a possible an active secretion of gastine junce characterized by increased total acidity and the appearance of fire hydrochloric acid, set in at the end of the contract of an hour the acidity then returning to its omnial salving.

Observations made on persons with larying platine anxisthesia and on normal persons after occumination of the soft palate and pharyins suggested that the secretion described is due at least largely to irristation of the velopalization and pharyin sugal mucous membrane which is probably mechanical. The phenomenon seems to be closely related offsetton from comply destrobed by the authors in which mechanical irritation of the nasil mucous membrane appears to be the active factor.

The phenomenon is of physiological importance II it is confirmed it would appear necessary to modily the classical physiological conception that mechanical excitation of the buscal cavity simple excitation of the nuceal cavity simple excitation of the nuceal cavity simple excitation of the nuceal cavity simple excitation of the properties of edgulution are of themselves in efficiency for the excitement of gastre secretion (Morat and Doyon). While this conception may perhaps hold for isolated mechanical excitations II does not appear to be true for excitations that are somewhat prolonged and are produced at the level of the base of the tongue the soft plaints the phaspix and the massl

mucous membrane From a practical point of view a knowledge of the phenomenon is important to prevent errogeous interpretation of the results of experiments with substances thought to have an exciting influence on the secretion of gastric juice since a positive result may be due solely to the presence of the tube used for the introduction of the substance into the stomach. To eliminate this cause of error it would be necessary after the introduction of the tube to delay the introduction of the substance to be trated until the secretory cycle has reached its end and the acidity has returned to the normal for the empty stomach Since cocamization of the soft palate was found to have an influence on the acidity values at least the earlier ones at would be prudeot so cases in which this procedure has been carried out to facilitate deglutition of the tube to wait at least a quarter of an hour before removing the gastre

CARPENTER.

Juice

Wanke R A Surgicoclinical Consideration of Peptic Ulcer and Chronic Gastritis (Das Ulcusleden und die chronische Gastritis in chrur gisch klmischer Betrachtung) Deutsche Zische f Cher, 1999 (cztu), 28

Wanke reviews the material of the Kiel chine since the year 1912 when the first ulcer resection by the Billroth I method was done In the period from rora up to May 19 5, 400 pylorus antrum resections were performed. On the basis of these cases most of which have been under observation for more than five years and in all of which macroscopic and microscopic studies of the lesions were made the author compares the clinical manifestations with the anatomical changes As an example of the treatment he describes the procedure used during the years 1022 and 10 3 At that time resection was done in 35 per cent of the cases and gastro enterostomy alone in 13 per cent In 7 per cent there was a free per foration Therefore in 45 per cent of the cases coming to examination on account of gastric dis turbances the symptoms were due not to ulcer but to a neurosis chronic gastritis or some other condi tion Aine per cent of the latter were operated unon

In 3 per cent pylorus antrum resection was done The author helieves that he is qualified to judge the resection treatment of chronic gastritis. In the literature there is still a difference of opinion because the changes in the gastric mucosa associated with chronic gastritis are noted much earlier and more frequently than the clinical symptoms The author reports 6 cases in which a cure was obtained by antrum resection. In a of these a small carcinoma was found in the resected portion of the antrum Of a series of 16 cases in which resection was done for chronic gastritis the operation resulted in a cure in 5 improvement in 2 and failure in o The failures are to be attributed in part to postoperative adhe sions and in part to underlying nervous disturbances which cannot be relieved by the removal of a part of the stomach On the other hand chronic gastritis is often the symptom of a general disease (chronic infectious disease) which does not offer a good prog

nous for cure from surgical treatment
Gastrac crosss are included by the author in his
discussion. These are not specific disease complexes
in fluction patients but are related to the local non
specific disease. If the author's correctly interpret
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of the believes that the gastrac cross are produced
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from the 17 cases of chronic gastritis reviewed the
end result of resection in the remaining 14 cases was a
new in § Cases improvement in 3 and failure in 6

Chrone gastritis has been treated also by gastro enterostomy. The results are poor Poloroplasty including pyloromyotomy was done in to case The result was successful in only 2 and in 1 of these it seemed to be due more to the regulated mode of living than to the operation.

Finally Wanke questions whether simple laparot omy may not be sufficient in chronic gastritis

GASTRO INTESTINAL TRACT

Yates J L Raine I and Stevens G W Thera peutic Aspects of Gastro Intestinal Subcom petence Ann Surg 1929 te 517

Disturbances in the gastro intestinal tract caused by passive ob truction resulting from subcompe tence of the musculans of one of more egments m's occur alone of in association with gross lesions of the stomach or duodenum, appendicitis, and cholecystitis In the early stages of passive oh struction before the muscularis has been rendered thoroughly incompetent, non-operative measures should always be employed together with appen dectomy or cholecystectomy if one of the latter is indicated

In later cases with incompetence of the muscularis of the bowel wall operative restoration of the grade ent is indicated in the cases of patients with sufficient mental and physical stamina to be benefited

Operative treatment of ulcer and cancer of the stomach and of ulcer of the duodenum is more cer tain to afford immediate and lasting relief if the gross lesions are removed and the gastro intestinal gradient is restored JOHN W NEETH M D

Gibson C L and Wade P A The Fowler Position and Its Relation to Dilatation of the Stom ach inn Surg 1929 to 643

While the postoperative use of the semi recumbent or Fowler position is of value in the treatment of acute peritonitis and in the prevention of postoper ative pneumonia the authors found in a study of 103 cases that the recumbent or flat position tends to prevent the occurrence of postoperative dilatation of the stomach especially after operations on the stomach and pall bladder. In cases in which the recumbent position was used the incidence of pulmonary complications increased only 2 per cent

Mallory G k and Welsa S Haemorrhages from Lacerations of the Cardiac Orifice of the Stomach Due to Vomiting Am J M Sc 1929 claxent 200

WILLIAM J PICKETT M D

In fifteen cases of massive gastric hemorrhage fol jowing alcoholic debauches there were no laboratory or I ray findings to explain the bleeding It was assumed that the blood came from a suptured variet In four such cases autopsy revealed at the cardiac opening of the stomach from two to four fresh fis sure like lesions of the mucosa from 5 to 20 mm in length and from 2 to 3 mm in width which extended down to the muscularis and were arranged amund the cardiac opening in the longitudinal axis of the or ophagus.

Microscopic sections showed the floor of the ul cers to be composed of fresh fibrin and an exudate of polymorphonuclear leurocytes Definitely rup sured arterioles were also observed

The authors suggest that such acute lacerations are caused by pre sure changes in the stomach dur ing reiching when a disturbed mechan im of von. ing due to fatigue of the vomiting center fails to relat the exophagus and diaphragm

M HERBERT BARRER M.D.

Deaver J B , and Burden \ G The Surgery of Pylorospusm Ann Surg 1929 xc 330

The surgical pathology of the pyloric phinter bears an important relationship to peptic ulcer Abnormal function of the sphincter such as spain and achalasia is considered due to a di tuibance of inpervation. The resulting changes in the mot function of the stomach are represented chancily by the syndrome of peptic ulcer The di turbel physiology of the sphincter is the cause not the effect, of the ulcer A logical corrective measure for disturbed pyloric function would appear to be division of the nerve supply The authors have practice! excision of the anterior half of the palone sphinter in thirty-one cases

The pylorus is exposed through a high n ht rectus incision. The pylonic sphincter is readily recognized from the short transverse pylon tems An elliptical area including the anterior ball of the sphincter is formed by two curved transverse at cisions one on either side of the sphincter These incisions are carried down to the submucosa of the stomach and duodenum The loner end of the elliptical area including the sphincter, is cut scrots peeled off from the underlying mucosa and cut of at the upper end The resulting oval defect is then closed by a continuous suture uniting the gastro and duodenal serous edges

Wide extension of inflammatory edima or the presence of a nea by acts e ulcer are contra indica tions to this operation on account of the danger that the sutures may not hold When the operation has been properly performed there : no appreciable

narrowing of the pylorus In all of the thirty one cases in which this opers tion was done there was a more or less typi al history of peptic ulcer and in six hemo thage had occurred Duodenal ulcer was found at operation in twenty three cases, and in three there was an scute perfora tion Gastric ulcer occurred in three cases and in one of these there was an acute perforation Cholcystites was present in nine cases Seven of the patients with cholery stitis had an associated duodenal ulcer and two were suffering from pyloro spism. One patient was found to have a gastrojejunai ulcer

The antenor half of the pylonic sphinter was excised in all cases Additional operative procedures included exci ion of a duodenal ulcer in four cases gastrojejunostomy in one case cholicy stectomy in nine cases, and sleeve resection of the stomach in

One of the patients died in the hospital from ura mia Of the thirty others filteen were compictely relseved of all their symptoms two reported im provement, and only one was not relieved

JOHN W VANCE WD

Garin Froment Amic and Delorme Gastric feeterstein Frowskad by the Simple Presence of an Einhorn Tube in the Digestite Passages The Excitation Which Elicits the Secretary Reflex Appears To Be Produced at the Level of the Phrtyrx (Sertions gaining proceeds par sample presence in Lexitation qui déclarche le effere sécrétoir parile se produire au meand pharyay) Bull et nem Sac méd d 389 de Par 1293 th 500

The authors found that if the Emborn tube was allowed to seman in place after the stomach had been empited of gastine junce as completely as possible an active secretion of gastine junce, char actenized by increased total saidity and the appearance of fire hydrochloric acid set in at the end of litteen minutes. This secretory, cycle lasted at least three quatres of an hour, the acidity then

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Wanke R A Surgicoclinical Consideration of Peptic Ulcer and Chronic Gastritis (Das Ulcuskeden und die chroniche Gastritis in chrur gisch klimscher Betrachtung) Deutsche Ulsehe f Chir 1029 cctiv 28

Wanke reviews the material of the Kiel clime since the year 1912 when the first ulcer resection by the Billroth I method was done In the period from 1912 up to May 1925, 400 pylorus antrum resections were performed On the basis of these cases most of which have been under observation for more than five years and in all of which macroscopic and microscopic studies of the lesions were made the author compares the clinical manifestations with the anatomical changes As an example of the treatment he describes the procedure used during the years 1922 and 1923 At that time resection was done in as per cent of the cases and gastro enterostom; alone in 13 per cent. In 7 per cent there was a free per Therefore in 45 per cent of the cases foration coming to examination on account of gastric dis turbances the symptoms were due not to ulcer, but to a neurosis chronic gastritis or some other condition Nine per cent of the latter were operated upon

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Gastro cities are included by the author in his discussion. These are not specific diseases complexes in heater patients but are related to the longest members are the specific disease. If the authors correctly interpret ed he believes that the gastro croses are produced not merels by the lues but also by the accompanying gastrits. When a cases of gastric croses are excluded from the 17 cases of chronic gastritis reviewed the end result of resection in the remaining 1s cases a sea, current genes cases improvement in 3 and failure in 6

Chronic gastritis has been treated also by gastro enterostomy. The results are poor Pyloroplasty including pyloromyotomy was done in 10 cases. The result was successful in only a and in 1 of these it seemed to be due more to the regulated mode of living than to the operation.

Finally Wanke questions whether simple laparot omy may not be sufficient in chronic gastritis

Of 23 patients followed up failure was reported by to Only 4 were completely rehesed of their symptoms In the majority of the cases the improvement was to be attributed to a slight gain in weight, etc.

In summing up Wanke states that by no surgical procedure is it possible to obtain a successful result or improvement in more than 50 per cent of cases of chronic gastritis ffe therefore doubts that chronic gastritis is a surgical condition and concludes that surgical treatment is basically mady sable

In the second part of his article Wanke discusses chronic gastritis and simple ulcer as evidenced by a simple scar He concludes that the ulcer in these cases is of less importance than the basic obronic gas tritis, and that the comparatively poor results ob tained in such cases in the Kiel chnic which are the same as those obtained in chronic gastritis are to be interpreted in the same way as the results obtained in chronic gastritis alone. Hestresses the importance of postoperative adhesions in these cases

The most detailed discussion is devoted to chronic gastritis with chronic ulcer Wanke again advances the theory that the ulcer is a mamfestation or a result of the chronic gastritis The latter is often still demonstrable but in some cases may have entirely subsided. If ulcer is considered a local disease pylorus antrum resection must be regarded the most etiologically grounded procedure and should be expected to yield the best results author reviews 245 carefully studied cases hundred and fifty five of the patients were cured so were benefited and so were not benefited. The treat ment was therefore successful in 84 per cent of the cases and failed in ro per cent. This material Wanke divides into (r) simple chronic ulcers without complications and (2) chronic penetrating ulcers and so called organic hour glass stomach. In the first group there were 140 cases with a successful result in 70 per cent and failure in 21 per cent. In the second, there were tro cases with a successful result in go per cent and failure in ro per cent Therefore if successful results can be obtained in at the most only no per cent of the severest cases we are not able to cure the ulcer condition by local measures with certainty We may say definitely that the more pronounced the symptoms the more severe the primary ulcer process and the more localized the primary organic change in the ulcerous stomach the more successful the results will be and vice versathe less pronounced the symptoms and the more diffuse the primary organic condition the greater

will be the number of failures In most of the cases treated at the Kief climic the indication for the primary operation is indicative of the subsequent course The author discusses the cases with poor results in detail. The first to be considered were 2 cases in which recurrent ulcer appeared after a Billroth I operation These were the only 2 cases of recurrence in 339 cases treated by this method. In more than 70 cases in which a Billroth II operation was done at the kiel climic there was no instance of recurrence

The author believes that 99 per cent of prtients with ulcer were freed of the ulcers but not of the general ulcer disease or their general gastne symp-

In returning to his discussion of the changes in th stomach caused by thronic gastritis Wanke states that the cause of failure is the chronic gastrits of the fundus which in many cases is to be traced to a new disease of the fundus caused by a new evogenous or endogenous mury Chronic gastritis not recurrent ulcer as the true after sickness of the stomach operated upon for ulcer In 64 cases of failure there were a recurrences Of the remaining of patients 43 were carefully re-examined and 17 were reported upon by their family physician

Gastritis of the stomach stump is of a types, the one appearing as a new illness after years of well being and the other an unhealed form which has not been influenced by the operation The first form was found by the author in about 6 cases In all of the others the gastritis was not influenced by the pylorusantrum resection and persisted after the operation It is possible that the after treatment may be of

great benefit in such cases As evidence that chronic gastritis is the true after illness of our ulcer surgery the author cites the perigastritis which is due to a gastritis. The picture of postoperative adhesions coincides withit

The mortality of all operations in cases of all

types is 12 per cent

In summarizing Wanke states that chronic gastritis is the basis of the ulcer syndrome without ulcer In a small percentage of cases it is a surgical ly unbealed remainder of the ulcer disease in the resected stomach When a matured ulcer is removed from a gastritie stomach the amount of henelit resulting depends upon the severity of the changes present The best permanent results are obtained in cases of the most serious ulcers as these are accom panied by the most severe reactive inflammator) organic changes

With regard to the question as to whether reset tion is to be preferred to gastro-enterostomy the author states that with the latter procedure he had successful results in 76 per cent of his cases and failures in 24 per cent The incidence of good results was therefore 14 per cent less than in cases treated by resection

The last part of the work is devoted to a compan son of the clinical findings before the operation and the late results of treatment Chemical examination of the gastric juice has yielded no prognostic index for the late results The relation of the late results to the age of the patient is of interest. One should be very cautious in placing the indications for resection before the fortieth year In cases of chronic ulcer surgical treatment is more likely to fail before the age of thirty years The most severe ulcer proc esses are of course the ones to be operated upon

But it has been found that the number of failures increases rapidly after the fortieth year Therefore the younger the patient the more favorable the late results of resection for severe ulcer processes, the greater the percentage of foultre in chroniculary, the greater that percentage of foultre in chroniculary defended ulcer. Regarding the relation of the duration of ulcer to the plate results, the author concludes that the earlier the pieces as the more repenable it is, and the older it is the sor irreparable it is, and the older it is of the order reparable it is, and the older it is of the order reparable it is, and the older it is of the order research the order research the order research the order research the order reparable it is, and the older it is of the order reparable it is, and the older it is of the order reparable it is, and the offer it is of the order research the order order of the order or

Balfour D C The Problem of Recurrent Peptic

As a first principle in the surgical management of recurrent clotors the author states that trawms particularly to the mucosa of the stomech and equipum must be reduced to the minimum. He is convened that some recurrences can he attribuse to the control of the

The transfer about the summary combitudes under which recurrence may take place may give an un pression that recurrence of uter is a common sequence following operation whereas it is not. A most careful study of large groups of cases in which operation was performed at varying periods shows that the total inacdence of recurrence of useless that the total inacdence of recurrence of selven which the recurrence of selvens is not more than a per cent. If this figure is compared with the per centage of recurrences following any other type of treatment for chronic peptic uter and if the excellent results which follow conservative surgical practice are considered it is clear that surgical practice are considered it is clear that surgical results.

Costantint II. Poloric Ulcer Treated by Gastro Enterostomy with a Button. Two Years Later Peptic Ulcer. Button Remains in Place. Gastro pylorectomy. Ulcere pylorique traité par gastroenterostomie au bouton il y a deux ans bouton demeuré en place ulcere peptique. gastropilorec tomie.) Bill el nem Se nat dechur jurgi ly 1050.

The case reported was that of a man aged fifty four years who had been subjected to operation for croses of pain in the gastire region which had recurred over a period of eleven years and had finally become complicated by vomiting. Details of the operation could not be obtained but a metallic but ton was used and the patient was told to watch his

stools for its expulsion. The immediate results of the operation were excellent, but a year later the patient began to experience pain a quarter of an lour after eating which was accompanied by hilosis womiting and led to emacation. When he consulted the author for treatment two years after the operation the hutton had not appeared in the stools and on deep palpation could be felt rolling in front of the spunal column. Roentgenoscopy showed that the gestion enterostomy ornice was entirely permeable. When the abdomen was opened the anastomotic

which the absolute was opened the massional bettom was found still in position. Between the hutton and the pylorus the stomach was thickened and in places indurated. The swollen mass was adherent postenoity to the pancreas. The button was an juxtaposition to the thickened gastric zone Contrary to the usual findings in peptic ulcer, there was no thickening around the gastre enterostomy opening or infiltration of the transverse mesocolon Cloquire of the gastre enterostomy followed by py.

lorectomy was decided on

The duodenum was sectioned and the lower end closed Moving the pylorus caused a tear in the posterior gastric wall which was very friable and the tear brought into view an ulcer which had penetrated the parenchyms of the panereas. The anastomotic button was found in contact with the ulcer and was easily removed. The mouth of the gastro enterostomy showed no ulceration. It was thought that a sill, or linen suture in the wall might have prevented expulsion of the button Such a suture was therefore sought but was not discovered The gastro enterostomy was closed, the pylorus removed and a transmesocolic anastomosis estab lished according to the Polya method Smooth healing resulted CARPENTER

Charrier A and Illar J Should Balfour a Oper ation Be Used in Gastric Surger; ? (Lopération de Balfour doit elle être utilisée en chirurgie gas trique?) Res dechir 1929 XIVIII 333

The authors report eight cases of gastra ulner an which Ballour's operation was performed. The operation was easy hut in two cases was followed by a grave pulmonary condition and none case each by extreme exactement with delinium and fever, a subum hindral perationities. In all except one case the late results are unastriactory a four cases they were so poor as to necessitate re operation. The second operation revealed an extensive local inflammatory reaction. It consisted of gastro enterestions in three seconds of the control of the contro

From a review of French and American literature the authors conclude that their results are not exceptional. They state that fresh small movable ulcers that are easy facets can be destroyed with the cautery or the histoury of gastro enterostomy is also done. They prefer the bistoury to the cautery. In cases of old adherent callous ulcers the type most frequently encountered the operation will be diffi cult and will leave behind unsatisfactory conditions

Janes R Two Cases of Intestinal Obstruction Due to Strangulation of a Loop of Small In testine in an Opening of the Left Broad Liga ment Bril J Surg 1939 xvii 333

The author reports two cases of obstruction of the ileum in an opening in the left broad ligament in parous nomen aged fifty-eight and thirty six years

In the first case the obstruction was preceded by repeated attacks of abdominal pain over a period in ten months. At operation it was found that a loop idem is an long had passed through a bole in the left broad ligament from the front and hy in distincted color in the posterior cold ease. The opening in the broad ligament which was about a cm just below the fallippian tube and the round ligament. The intestine was suithdrawn from the opening and the defect closed. Recovery was uneventful.

ing and the defect closed. Recovery was inevential in the second case the intestinal obstruction was preceded by an attack of abdominal pan occurring these months previously. Operation performed in apite of a very severe a uncular fibrillation received to the property of the property o

broad igament Detween the rainbran due and that round ligament. The intestine was in good condition. In the nuthor's opinion it is conceivable that the defects in the broad ligament were produced by pregnancy.

J. EDWIN KIRKPATRICK M.D.

Raine F, and Perry M C Intestinal Obstruction Experimental Studies on Toxicity In tra Intestinal Pressure and Chloride Ther

apy Arch Surg 1929 arx 478

In the experimental work reported in this article the authors attempted to determine (1) the taxisty of the contents of obstructed bowle when they are introduced into obstructed and non-obstructed bowle, (2) the factor of surveyal after the production of obstruction and (3) the therapeuts will be obstruction and (3) the therapeuts will be of the surveyal after the production of obstruction and (3) the therapeuts will be of surveyal after the production of obstruction and (3) the therapeuts will be of the surveyal be of surveyal before the production of obstruction and (3) the therapeuts of surveyal before the production of obstruction and (3) the therapeuts of the surveyal before the surveyal before the surveyal before the surveyal before the surveyal surve

of intra intestinal pressure
Rabbits were used as the experimental animals
because as they do not vomit their intra intestinal
pressure can be controlled. All operations were

done under ethylene anæsthesia

It was found that the higher the site of the obstruction the more quickly the animal died. When the obstruction was in the duodenum the penod of survival varied from fourteen to eighteen hours whereas when the obstruction was in the lower ileum the period of survival varied from eighty to two hundred hours Death occurred more mprily when food or water was taken

Loss of all secretions entering the stomah sid doudenum is incompatible with hir Theries the inner the obstruction the greaters the reaption of secretions and the less are the delphon as add depletion of blood forming the secretions. The changes in the blood following institual obstrution namely: a decrease in the chlorides and in a crease in the one protein unitoria are the surtor low obstruction as in high obstruction. The question is raised as to whether it is not the loss of question is raised as to whether it is not the loss of which causes the serious so pincois in intertain obstruction.

The release of temporary obstruction sees a ben the rabbit was near death resulted in a roal artimute to health and quick restoration of the blood petiture to normal. Removal of the stomach contents preceded to the release of the obstruction retarded recovery, and the substruction of sodium chloride and high-chloric acid in amounts equal to the mater and chloride removed was followed by most rapid in covery than the substruction of distilled water slate. The rabbits recovered more rapidly when they wise permitted to resorb the contents of the obstructed bowed than when guick contents were removed.

When the intra intestinal pressure was reduced by means of gastrostomy life was prolonged The capacity of the stomach to absorb water is very The introduction of unabsorbable sub ereat stances into the stomach at once increased the intra intestinal pressure and hastened death as did the introduction of gastric and duodenal contents obtained from jejunal obstruction in another animal Diminishing the intra intestinal pressure in the obstructed howel prolonged life because it decreased peristalsis which in turn decreased secretion and promoted resorption whereas increasin the intra intestinal pressure shortened life because it provoked hyperperistrisis which in turn stimu lated secretion and diminished resorption

The therapeutic value of solutions of solution in the obstructed as the trix interims pressure in the obstructed solution to the control of t

Pertonnis as more dangerous because of the secondarying in some dangerous because of the secondarying in some dangerous because of morphane inhabit persistals and diminish secretion and this aid materially in keeping the intra intestinal pressure low Jejunostomy is a valuable method of educing intra intestinal pressure but should be done may be referenced by the secondary to refere excess pressure as complete dramats.

of the gastric and duodenal secretions is as disas trous as continued paresis

The kidneys show little damage from the intes tinal obstruction The increase in the urea in the blood and urine demonstrate that waste products are forming more rapidly than normal and more rapidly than the kidneys are able to excrete them CYRIL J GLASPEL M D

Phillips K and Stowe W P Intestinal Obstruc tion and Septic Invasion of the Peritincum Combined Medical and Surgical Treatment Arch Int Med 1929 thy 543

Both experimental and clinical evidence indicates that persons with obstruction of the bowel ileus and septic invasion of the peritoneum not including streptorousic invasions have the underlying factor of toxumia related definitely to protein metabolism within the intestine by bacterial action. The exi dence indicates that the toxemia is the primary factor following the initial condition and that the symptoms and changes in the blood chemistry are secondary to it

As such patients are usually very poor surgical risks the authors treat them as follows

A Rehfuss tube is passed into the stomach and duodenum and if necessary is left in place for several days during which time hourly aspirations washings, and instillations are done

2 A 50 per cent solution of destrose is given in travenously with care to inject it slowly amount of each dose varies from 40 to 100 c cm depending on the size of the patient. At the end of the injection enough insulin to burn the dextrose calculated on the basis of 1 unit per 2 gm of dextrose, is given hypodermically

3 The blood stream is supplied with an excess of fluid. The effect is best if this is given a short time after the dextrose The intravenous method is preferred As a rule Ringer's solution is used, but, if desired normal salt solution may be employed

4 After the diuresis and the effect of the dextrose and saline solution are well under way an intra venous injection of a 10 per cent solution of sodium chloride is given the amount varying from 75 to 150 c cm according to the size of the patient

5 In the cases of patients who fail to respond to the medical management as well as expected a high enterostomy is done under local anysthesia

In a series of forty cases among private patients (not including cases of streptococcic invasion) the mortality was 10 percent George A Collett M D

Ibos P Hysterectomy for Irradiated Fibroma Postoperarive Infestinal Occlusion Cure Brought About by Hypertonic Salt Solution Given Intravenously (H) stérectorue pour fibrome mradić occlusion intestinale post-opératone guén son par le sérum salé hypertonique intraveineux) Bull et ment Soc not de chir 1929 ly 1012

The patient whose case is reported was a woman thirty six years of age who was sent to the author

with a diagnosis of fibroma still bleeding in spite of twelve roentgen treatments. Her general condition was good Operation was performed under ether annesthesia. The uterus was as large as that of a three and a half months pregnancy and closely ad berent to several loops of intestines Some of the adhesions were large and superficial and others were narrow bands Liberation of the uterus was difficult At several points it was necessary to incise the utenne tissue to avoid tearing the intestine A classical subtotal hysterectomy was performed Considerable hamorrhage occurred from the right uterine artery, the wall of which was very friable

After this hamorrhage had been checked peri

tonization was begun but the peritoneum also was

frable and bled easily A Mikulicz drain was

The postoperative course was normal for the first four days but on the fifth day signs of occlusion of the intestine developed. On the sixth day the patient was in very poor condition with a drawn face a pulse of 110 a temperature of 374 degrees C and nausea That night she vomited frequently Irriga tion of the stomach brought about improvement At s o clock in the morning of the seventh day irrigation of the stomach evacuated a liquid with the appearance and odor of intestinal contents. The patient was in desperate condition with a mask like face and a pulse of 135-140 Her abdomen was enormously distended the intestinal occlusion heing

complete At 6 o clock she was given 20 c cm of hypertonic salt solution intravenously and I liter of physiologic cal solution subcutaneously but no apparent change resulted. At to o clock her stomach was washed The haud was then not facaloid At noon another liter of salt solution was given subcutaneously and a second intravenous injection of the hyper tonic solution was administered. The intravenous injection caused a violent reaction with intense pain in the limbs At 4 o clock a third intravenous injection was given and caused another violent re action similar to that following the second injection At 8 o clock a fourth intravenous injection was given The patient then looked better. Her pule was 110 and stronger However the occlu sion persisted and the outlook was not encouraging The author is convinced that without the intravenous injections and the repeated irrigations of the stamach she would not have lived through the day On the eighth day she was given 80 c cm of salt solu tion in four intravenous injections of 20 c cm each and 2 hters of physiological solution by subcutane ous injection After this treatment she showed fur ther improvement and in the afternoon passed sev eral bound stools. On the following day she was out of danger

ROUX BERGER who read this report to the Society said that he had experienced difficulty in two opera tions for irradiated fibroma, but he has operated on many patients after irradiation without any com plications

AUDREY G MORGEN M D

Pouliquen The Treatment of Intestinal Invagination by Opaque Enema (A pumps du traite ment de invagnation intestinale par le lavement opaque) Bull et mêm Soc nat de chir 1929 lv 710

The author reports two cases of intestinal invagina tion The first was that of a boy aged two years who was taken with colic and vomiting. The diagnosis of invagination was made in spite of the absence of bloods stools A mass seemed to be present in the infra umbilicial region When a barium enema was given under a pressure of 1 meter, the fluid rose rapidly, stopped a moment in the infra umbilical region and then passed to the hepatic angle I illing of the cocum required about twenty minutes After the excum bad been filled the appendix became visible The next morning the child was completely cured During the reduction two roentgenograms were taken One was made when the mass was at the bepatic angle. The other was taken after the excum had been filled and just before complete reduction was effected. At this time the appendix was not yet visible and at the internal border of the cacum there was an indentation which suggested that the invagination was of the ileocarcal type

The second case was that of a boy nineteen y ears of age who was seized with colic and during the succeeding night experienced attacks of pain. The next day the pain persisted but the patient was able to work Hepassed gas and did not vomit Two days later somiting began and he was taken to the hos pital with a diagnosis of appendicitis. Intestinal invagination was suggested to Policien by the absence of fever and the character of the intermittent This diagnosis being confirmed by the dis covers of an infrahepatic mass a barium enema of about 11/4 liters was given under pressure of 1 meter The opaque column rose rapidly as far as the liver and then stopped After taxis for several munutes the carryin became visible. Although there was no trace of barium in the small intestine the clearness of the carcal contours was considered to indicate that com plete reduction had been accomplished. However the next day the patient again had attacks of pain which increased in severity During a second roent gen examination the barrum passed easily and filled the excum but the valvular region could not be seen clearly Reduction of the head of the invagination which was in the end of the small intestine, at the valve was accomplished through a right lateral incision. The invagination was of the decembe vari ety The head was 6 or 7 cm from the valve The report of this case contains the reproductions of three roentgenograms The first shows the mass at the hepatic angle the second the excum beginning to fill, and the third the caecal ampulla filled with barium. There was no trace of the opaque fluid in the small intestine

The author concludes that the opaque enema is incapable of curing ileocolic and purely ileal invaginations and is often useless for their delineation and differentiation. He states that the image of a smoothed out creum may suggest ompide don vagination when the head unreduced, remains the den behind the valve. When the peaque find den not pass into the small intestine (which is unless not pass into the small intestine (which is unless nately the rule) there is nothing to show relate or In subacute cases it might he advisible to pue certain amount of barnium salt by mouth to see did will pass into the exerum but in acute care that procedure is uncless as it is impossible to delitreatment for the necessary great or seen hour

In conclusion Poultquen as a that while the operenema does not effect complete reduction were case it effects partial reduction in man, and my hing the invaginated mass into the right inclusion where it can be reduced through a right lateral in casion without causing eviscentian. If therefore, grees an ordinary or harum enema under pressurwaits twenty, immutes, and then unless the ran remains perceptible on the left side unless the ran exploratory question in the right halactors. Parexploratory question in the right halactors.

Mathleu P The Use of the Bartum Enema at a Pre Operative Procedure in the Treatment of Extensive Acute Intestinal Invaginations (Lui sation du lavement baryté comme maneria properatore dans le traitement des invaginations (testinales apprès étendues) Bull el min Su saf étable 100 ly (50

When the head of an invegnation reaches the rectum it is difficult after metal lapacitory to approach the tumor formed by the invegnation which is afterent to the securior of to pick up the head of the invegnation. Maneures which require the introduction of the whole hand into the abdomen nearly always cause exceeding the head of the invegnation with fluorescopic reminimization traces reduction and the properties of the pr

Bertrand P and Clavel G Total volutions of the Small Intestine About the Mesentent tin Anatomicat and Glinical Considerations for volviulus total du gride sur l'ave mésenténque con suférations anatomiques et climiques). Lyon chr. 1292 271 351

The authors eport a case of complete torsano of the small intestine without involvement of the execute which was due to an anomaly of the estimates the state of the execute which was due to an anomaly of the estimates the execution of the terminal segment of the halb and slarge reducible information and execute the state of execution of the exe

At operation the persioned cavity was found to contain a large quantity of very offensive fluid and the entire small intestine was uniformly distended Complete evisoration resealed (cockwase torsion of the intestinal mass). The torsion was reduced and an ideostomy performed. After brief amelioration the symptoms of obstruction became accentuated and two days later the pattent ded

Autopsy recombed recurrence of the volvulus The section was hypermine, dilated and in places nections and extending from a point syem above the end of the iteum to the abdominal wall in the ventily of the inguinal ring. Just above the local graph of the section of the iteum to the abdominal wall in the ventily of the inguinal ring. Just above the loc veral angle the iteum was adherent to the posterior abdominal wall for a short distance. Above this segment to became free but only to pass hereast the autocular hand. The sac of the herma was emby

The freedom of the execum from involvement was due to the addresson of the latenut to the posterior abdominal wall. The hand that passed over the incum was produced simply by the traction of the root of the mesentery on the surrounding peritoneum Similar hands are often observed in volvulus of the pelvic colon and it is simportant to recognize their time nature as the volvulus may be overfooked and the band taken for the cause of an internal strangulation. A predaposing cause of the volvulus may be found in the adhesion of the terminal periton of it has the continuous control of the memberatory pendy vertical thus facultating the rotation of the intestines and disturbing their roundle consultinum.

The season of hernal and volvalus has long been recognized According to Delbet the hernal may contribute to the volvalus in one of there as assume the properties of the hernal respective to the result of the hernal of the properties of the hernal o

Clinically the attention of the surgeon is drawn to the herma and the volvulus is discovered after the hermotomy has heen undertaken or not at all. For this reason the mortality is very high

ALBERT F DE GROAT M D

Molesworth H. W. L. Heocotostomy An Accident from This Operation with Some Remarks upon the Results of a Closed Heat Loop. Bril J Surg 1929, XVII. 344

The patient whose case is reported was a boy fourteen years of age who was first seen by the author in June 1927 when he was suffering from intestinal obstruction with marked to turns. At the age of five years the patient had been subjected to an operation for acute appendicuts in a which dramage was used Following this operation he had numerous bilious attacks.

Laparotomy performed by the author revealed a large quantity of free fluid in the peritoneal cavity

and very marked distention of the small intestine. The obstruction caused by very dense adhesions was found in the right line forsign As liberation of the obstructed lieum was regarded too hazardons, hetween a distended cool and the transverse colon was performed and a high yeju nostomy was done

Aided by the suhcutaneous administration of saline solution the patient made a good recovery, hut during the year following the operation he had

many attacks of spasmodic pain

In August, 1938, he entered the hospital again with a more severe attack of pain accompaned by comiting. He had no obstipation and did not appear ill. A baruum meal and enema revealed no ahnor malty. Rapid recovery occurred.

In March 1929 he was re admitted complaining of secree pain and vomiting. The bowels were act ing regularly but there was slight distention of the abdomen and coils of intestine were visible and palphible. There was a mild prevan but no toxemia such as was present at the time of the previous operation.

At a second operation performed by the author, holod stanned fluid escaped when the pertoam was opened and distention of about 4 ft of intestine had passed from the left of the decoelostomy was found. The intestine had passed from the left of the decoelostomy through the rang formed by the anaxioms and had rotated in an anti-clockwise direction through a complete in an anti-clockwise direction through a complete may be a complete the results of the control of the con

The author questions the validity of Williams' theory of bacillax welchin toximia in intestinal obstruction because in this case a closed loop of ileum which had been present for at least three days or longer caused no demonstrable toximia whereas obstruction in continuity produced marked toximia. The continuity produced marked toximia in the continuity and the continuity are the continuity of the continu

J EDWIN KIRRPATRICK M D

Van Beuren F T Jr The Mortality of Enteros tomy in Acute Heus 1nn Surg 1929 xc 387

The most unportant danger in acute items is into tunal damage leading to textume and perstomits Intestinal damages due primarily to intestinal over distention or strangulation. The most effective means of preventing or relieving intestinal over distention is enterostomy done at the right time and in the correct manner.

Van Beuren reports an analysis of all cases of acote ileus operated upon during the past twelve years at the Preshyterian Hospital, New York This twelve year period is divided into three periods of four years each, the results in the perioda being compared The findings are summarized ea follows Acute ileus was diagnosed more frequently

during the period from 1921 to 1927 than during the period from 1916 to 1923

The diagnosis is now being made earlier than

formerly 3 The average mortality has been reduced during the past eight years and especially during

the past four years 4 Enterostomy is now being performed more frequently than formerly It was done in one third of the cases in the first period, one half of those in the second period, and three fourths of those in the third period

There has been a greater reduction in the average mortafity in the casea treated by enteres tomy than in those not so treated

The reduction in the average mortafity in the cases not treated by enterostomy may be largely accounted for by the reduction in the number of late cases but the reduction in the average mor tality in the casea treated by enterostomy cannot be accounted for in this way

CYRIL J GLASPEL, M D

Jancke C D Perforation of Simple Ulcer of the Small Intestine (Zur Perforation des einfachen Duenndarmgeschwuers) Zentralb! f Chir 1020 D 1222

By the term 'simple ulter of the small intentine is meant ulcers of the mucosa and the deeper layers of the small intestine which usually occur singly and resemble in ahape the pentic ulcer of the stomach and duodenum Such lesions are rare and are usually seen by the surgeon following perforation author reporta two cases which came to operation with the diagnosis of acute peritonitis due to the

perforation of a gastric ulcer The first case was that of a man forty one years of age who had suffered for six months with attacks of severe gastric pain accompanied by diarrhora and vomiting Operation performed during a renewed attack of pain disclosed a perforated ulcer in about the middle portion of the small intestine. The ulcer was excised and the resulting defect sutured Fol lowing primary recovery another perforation on curred and resulted in the formation of an intestinal fistula The patient died from manition Antopsi revealed numerous small ulcerations chiefly in the ileum In places these lesions were confluent Be tween others the mucosa was ordematous Besides the intestinal ulcers, there were two furger ul cerations on the greater curvature of the stomach Microscopic examination disclosed marked in flammatory infiltration of all layers of the in testinal wall

The second case was that of a man seventy-one years of age who had suffered since he was twenty four years of age with gastric and intestinal disturbances associated with constipation alternating with

diarrheea Four days before his admis ion to the hospital he was taken with shooting pains in the abdomen which could not be definitely localized and the day before he was seen hy the author the pains had become worse in the region of the umbibrus and had resulted in collapse. Operation disclosed a per forated ulcer of the small intestine 3 cm above the ifeocrecal valve. The ulcer was turned in and satzed over Death occurred on the following day Autopy revealed nothing of note besides the ulcerated a ex

There was no sign of typhoid tuberculous or lues In a third case cited by the author there was a perforation of the jejunum 30 cm beneath the ligament of Treitz As this lesson followed an ac cident the case was not included with the cases of

pure simple ulcer

The symptoms of simple ulcer of the small intestine are extraordinarily varied. Many of such ulcers progresa to perforation without symptoms cause of the lesions is unknown. Their formation is often explained in the same way as that of pephe ulcers of the duodenum The ulcers situated deep have been attributed to the effect of tryptic enzymes on lessons in the intestinal wall. The author suggests that islands of gastric mucosa in the mucosa of the intestine might afford a favorable terrain for their development

Tuomikoski V How Much of the Small Intestine of Man Can Ba Removed without Endangering Life? (Wie viel kann vom Duenndarm des Mensch en entfernt werden ohne dass sein Leben dadurch gefachrdet wird') felo chirurg Scand 1929 by

The author my estigated the utilization of nutr enta in the case of a man whose small intestine had been resected by Palmen to such an extent that the remaining part of the jejuno ileum measured only between 80 and 90 cm Seven years after the opera tion the patient enjoyed good health and was able to perform manual labor of medium seventy

As the utilization of nutrients was found to be relatively good the ronclusion is drawn that life is smmediately endangered only when no more than one half a meter of the jejuno deum remains This length is necessary for anastomosis to the remaining portion of the small intestine without causing tension

Black J M Primary Jejunal Ulcer Bril J Surg , 1929 XVII JJŠ

Black reports a case of primary jejunal ulcer occurring in a man fifty three years of age. The patient was awakened at 4 a m by a sudden and very acute pain in the epigastrium and at 8 pm was sent to the hospital with a diagnosis of scute appendicatis On examination rigidity and tenderness were found throughout the abdomen and a diagnosis of perforated gastric ulcer or rupture of the appendix was made

Operation was performed at 8 30 pm When the peritoneum was opened there was a rush of green watery fund The appendix was normal On examination of the stomach and duodenum, no perforation or lymph was discovered. When the transserie colon was delivered a large amount of green lymph was found in the left hypochoodrism. At a point 2 ft from the beginning of the jerjauran on the authorisement horder, there was a toogested area the size of a six pence piece, with a yellow slough in its center. When the plug of throughout a point of the size of a match head. The ulcra beautiful production of the production of the performed. The abdomen was then closed with drainage and 80 c cm of hacillus welchu antitorin were administered intramiscularly.

The patient made a good recovery and was dis charged from the hospital at the end of a month

On examination of the resected portion of the pignium Harvey found a small ulter of the mucosa in continuity with a perforation of the serosa which on microscopic examination showed an acute in flammatory cell reaction with etudation extending from the Liebertuhus glands of the mucous mean brane through the peritoneum at the site of the perforation

According to the literature primary jejunal ulcer is a very rare lesion. Jejunal ulcer following gastro jejunostomy is more common

J EDIVIN LIRKPATRICK M D

Pieri G Resection and Anastomosis of the Carcum and Sigmoid Colon in the Treatment of Gaecum Mobile (Lanastomose résection execusymothenne dans le traitement du crecum mobile) 1 de chir 1919 vruv 33

A mobile excum remains clinically latent until stasis occurs in it Stasis not the mobility itself is the indication for operation. The procedure recommended by the author consists in wide resection of the cucum resection of the wall of the lower part of the sigmoid and end to side anastomosis. A simple anastomosts does not divert the excal contents with sufficient surety and completeness neither does it eliminate the wall of the excal cul de sac which has either already undergone changes or has become able to changes The anastomosis is made in the lower part of the sigmoid near the promontor; in order to fix the excal stump in such a manner that it will no longer evert traction on its mesentery and in order to assure direct descent of the carcal con tents without the possibility of reflux into the proximal part of the sigmoid

The transverse section of the exerum starts above the appendix and runs upward and medally to a point a cm from the lower margin of the insertion of the small intestine. The incision in the sigmoid is at least 6 cm long and is made on the anterior surface between the double row of epiplica appendixes. The technique demands patience and exact saturing

The highest part of the posterior surface of the cacum is stitched to the extreme lateral part of the sigmoid loop with continuous silk surfaces. A second

row of continuous sutures, parallel and concentric. is placed at a distance of a few millimeters from the first The ends are left sufficiently long for use in suturing the anterior surface of the execum to the left lateral surface of the sigmoid loop. An intes tinal clamp is placed on the base of the cacum above the rows of sutures With another clamp the an tenor wall of the hase of the sigmoid loop is elevated and compressed 'The posterior wall of the cocum is then sectioned at a distance of 3 or 4 mm from the second row of sutures Close to the insertion of the appendix the anterior wall is sectioned with scissors A strip of the wall of the sigmoid is then resected between the row of sutures and the inser tions of the epiploic appendices a few millimeters of wall being left on each side Longitudinally the resected strip is 05 cm shorter than the row of

The intestinal walls are next sutured with catgut through their entire thickness. The suturing is becun on the side corresponding to the posterior wall of the crecum continuous sutures being used With the same piece of catgut it is continued on the anterior wall where Connel s sutures are employed When the intestinal cavities have been thus closed the clamps are removed and the double row of seromuscular sutures are continued anteriorly The sigmoid loop immediately below the anasto mosis is fixed to the right wall of the pelvis by a few interrupted statches to assure a vertical direction of the sigmoid loop below the anastomosis with avoid ance of kinking and to reduce traction on the su tures of the anastomosis. It is regarded as prudent also to ohliterate the space that has been formed between the mesentery of the sigmoid and the nos terior peritoneum

Pien has performed this operation in fourteen cases with good results. The first case was treated three years ago. The technique is shown by drawings. CAPPENTER

Freedman II J Forty Two Cases of Appendicitis in Children Occurring During an Epidemic of Upper Respiratory Tract Infection inch Pediat 1929 alvi 604

The two youngest patients whose cases are revened by the author were two years of age. In both perforation of the appendix occurred Fred man is of the opinion that perforation occurs more frequently in children than in adults. He states that the temperature which in adults is usually elevated in perforated appendicuts is of little decraise value in the diagnoss of this condition in the young. The pulse is quite an accurate sign of towarty being conaderably elevated in perforated appendicuts and advantaged to the condition of the perforated appendicuts. The leurocyte count is important Leuropennia may be micrative of source toxicity and over whelming infection. The other countries of the perturbation of the production of the above whelming infection. The

The early symptoms are not uniform. In 79 4 per cent of the cases reviewed the first symptom was pain. This was usually localized in the night loser quadrant of the addonen. A conting as a common symptom, especially in cases of perforation. But rice was exceptional, whereas constipation occurred in 67 per cent of the cases. The presence of seute infection of the upper respiratory treat and the discovery of enlarged abdominal glands at operation suggested to the author that acute apprenders may often be a sequela of infection of the upper respiratory treat. The physical findings of most value in the disagnosis were localized tenderness and spasm in the abdomen. Jone 14 Woosser M D

Perey D. A Case of Acute Diverticulitis of the Ascending Colon Simulating Acute Appendicitis (Un cas de divertechte agué du colon droit simulant une appendicite agué). Bull et mêm Soc nat de chr. 1920 [1, 147]

Ferey's case was, that of a woman twenty suryears of age who was accred at a o clock in the morning with severe pain in the right side of the abdomenwhich stradated toward the expositrom and was followed by nausea During the day she passed gas and two stools without districtor. The unne was cloudy and acousty Examination the next day revealed tenderness and marked contracture of the abdominal wall in the region of McDurrey's point The temperature was 58-d eggress? I and the pulse

When the abdomen was opened a hard redduck acteriopmontous mass the site of a barge chestout was found on the antero external surface of the according colon about 1 com from the fundas of the according colon about 1 com from the fundas of the excum. Within the fatty part of this mass there was a red inflamed diverticulum which seemed to have been strangulated by the colon wall through which it had hernated. The appendix and uter ine adness were normal. The diverticulum was resected and the walf of the intestine stutted. As is usual in diverticula of the intestine stutted. As is usual in diverticula of the intestine stutted.

testine occur in the pelvic colon MOURE in discussing Ferey's report cited a similar case that of a woman thirty years of age who was taken with sudden severe abdominal pain which was especially marked on the right side and was accompanied by vomiting a temperature of 18 s degrees F, and tenderness and slight muscular defense at McBurney's point. As the cecum was being exteriorized an induration the size of half a hazelnut was felt on the antero external surface 5 cm above and outside the implantation of the appendix The appendix was large but apparently normal The mass was continuous with the intestinal wall yellowish, and formed by inflammatory fibrolipomatous tissue. In the center there was an orifice communicating with the cavity of the excum Two centimeters above there was a diverticulum the size of a pea which was not infected and had supple walls After suture of the orifice of the first diverticulum and of the base of the second with the extremity invaginated the anterior and exterior

fascia of the execum were sutured together in such a way, that the region of the two diverticuls was buned Vateroscopic examination showed that the diverticuls were small hernize of the mucosa through the muscularis. Fluoroscopic examination during on valescence failed to reveal any other diverticuls of the colon.

LIVER, GALL BLADDER PANCREAS, AND SPLEEN

Ravdin I S Some Aspects of Carbohydrate Vetabolism in Hepatic Disease J 4m M An 1929 xxiii 1101

Wangensteen O II Complete External Billary Fistula a Potential Serious Postoperative Compilication Report of Cases J Am M 411 1919 acm 1190

Cattell R B and Klefer E D Failures After Cholecystectomy J Am M Ass 1919 xqu 1270

RAYDIN The administration of detrose previous of operation improves the patient's condition and reduces the operative risk. Of equal importance is a high carbohydrate diet or the administration of large amounts of destrose instraiendously after operation, as cell regeneration occurs more quickly and hepatic function improves much earlier when the patient receives large amounts of carbohydrate.

Destrose in dilute solutions is of more value than destrose in a Cop per cent solution because being exerted by the body more polysly, it is more readly utilized and does not have a dehydrating effect which seriously ampairs here function. In dehy drated animals glycogen formation does not take place

It appears that in cases of obstruction of the common duct insuling is not necessary unless there is evidence of a deficiency of the internal secretion of the panetreas

Destrose causes a reduction in the coagulation time of the blood, particularly in jaundreed patients. It has a more marked effect than calcium chlonde. In postoperative hver shock it is preferable to epinephrin.

WANGENSTEEN In the early days of gall bladder surgery a persistent biliary fixtula was a common sequelae of operation. In 97 per cent of the cases it was due to faulty technique and in 3 per cent to obstruction of the common bile duct. Today it is rate.

Although in a large number of instances patients with total external loss of blo continue in excellent health indicating that in man, bile is not essential to life in some cases the protracted external loss of hier results in a marked loss of weight and strength in less omnivorous animals than man continuel good health can be maintained in the presence of a history fixtude only by a well regulated diet.

In the presence of a complete irremovable ob struction of the common bile duct internal drainage of the bile is to be preferred to the primary estab lishment of an external fistula as an external fistula may not be well tolerated by patients who are poor operative risks

CATELLI and KHEER Of a series of 548 cases in which dedecystectomy was performed, the results were unastifactory in 55 (12 per cent.) For the purpose of study, the latter were dwided into the following three groups: (1) those in which the poor results were due directly to the operative procedure namely, cases of incomplete removal of stones, in juny to the common duct postoperative bernas and operative death (2) cases in which the gall bladder diseases was associated with a functional color diseases was associated with a functional color diseases was associated with a functional color diseases was seasociated with a functional color diseases with the disease was sense and (1) cases in which the diagnosis was probably in correct.

In the first group the operative mortality was 5 t per cent Of 235 patients who were re examined 6 per cent were found to have a postoperative herma One patient required a second operation for the re moval of 2 small stones from the common duct

It is believed that the operative mortality has been greatly reduced during the past two years by hetter selection of the cases better operative procures the use of spinal anrashenia, and better pre-operative preparation and postoperative care in the cases treated earlier the unsatistation; results and the higher operative mortality were due to amultaneously performed estrabilistry operations. It was a sumultaneously extrabilizary operations are not done at the common duct has resulted in a 50 per cent increase in the frequency with which common duct stones are discovered.

In case of the type included in the second group the patient may he led to conclude that the operation on the gall bladder was unsuccessful by symptoms due to the extrabilary, condition. Fostoperative hygenes should be applied to all cases in which choicely tectoring has been dome. The patients and the warned against acquiring excess neighbour and the control of t

In the third group of cases reviewed most of the operations were performed before the introduction of choles; stography and so per cent of the erroneous diagnoses were due to functional disorders of the colon. Non visualization of the gall bladder after either the oral or the intra-sensor administration that the should not be considered conclusive evidence of gall bladder disease when there is clinical or laboratory evidence of a functional disorder of the colon.

The highest incidence of unsatisfactory results follows the removal of non-calculous gall bladders. The patient with chronic cholecystitis should be treated conservatively with a period of medical man agement directed toward the rebet of the stomach and intestinal symptoms.

WILLIAM E. STACKLETON M D.

Morrin F J Polycystic Disease of the Liver Irish I V Sc. 1929 6 s, 666 Multiple non parasitic cysts of the liver are comparatively rare. In infants they are usually associated with congenital deformities and in adults they are often found in association with cysts of the

Lidneys pancreas, spleen, and other organs
The cause of polycystic disease of the liver is un
known, but according to one theory the cysts are
due to the inclusion of isolated portions of the wolf

sian body

The author reports the eases of two sisters aged thurty five and forty five years. The histories were strikingly stumiar. Both patients had had attacks of abdominal pain with occasional vomiting and both an editarged and nodular liver was patipable. In one case the diagnosis of poly oxite disease of the her was much before operation and at lapardomy then a made and before operation and at lapardomy that of a walnut to that of a tennis ball were found externed throughout the substance of the liver. In

nneventful recovery. The fluid obtained from the cysts was clear, slightly straw colored and alkaline. It had a specific gravity of ro 6 and contained urea eholesterin, and sodium chloride. Microscopie examination showed the cyst walls to be thin and lined by eulncal epithelium.

Snauer H Meyrzen M D

one case, numerous cysts were discovered also in the pelvis kidney and mesocolon. In one case a portion

of the cystic liver was excised and in the other

several cysis were aspirated Both patients made an

Illingworth C F W Cholesterosis of the Gail Bladder Brit J Surg 1929 xvii 203

Cholesterous of the gall bladder includes the so called strawberry change and also cholesterol polyposis which consists essentially of an infiltration of the epithetium and stroma of the mucous membrane hy lipiods and especially by cholesterol. In the stroma a characteristic feature is the presence of large 'foamy' cells of endothelial origin.

Cholesterous occurs most frequently in middle fit is staully associated with cholesystitis and often with gall stones. Cholesystography indicates that in uncomplicated cases the concentration of bale and the engisying in response to lats are not bale and the engisying in response to lats are not be and the engisying in response to lats are not be an expected to the blood in a travel but of the most rational free symploms are extremely varied. The most rational freatment is cholecy steeding.

The author reports experiments which indirect that in the rabbit cholestroots may be brought about most readily by the association of a prolonged state of hyperchofesterolems with a mild chronic bacterial cholesystitis that it does not result simply from the deposit of an excess of cholesterol from the form of the deposit of an excess of cholesterol from the form of the position of the contract of the contract of the gall bladder with the contract of the experimental me estigation of the shorther of the of the gall bladder it was found that the abortpion of the gall bladder it was found that the abortpion of secretal other lopods is easily demonstrable and that cholesterol is absorbed in an unrecognizable form, its presence in the mucosa being obscured Absorption of cholesterol from the bile probably occurs only when the cholesterol is present in excess

The conclusion is drawn that cholesterous results from two primary changes first, an increase in the cholesterol content of the bile which leads to the absorption of cholesterol into the mucous membrane of the gall bladder, and second a change in the plan cal and chemical state of the absorbed or insusible cholesterol, which renders is optically active and the cholesterol which renders is optically active and to its accumulation in the gall bladder and Thousand the control of the c

Cotte C Two Stage Operation for Cholelithlasis with Retention of Bile and Anglocholitis (Linterention chrurgicale en deur temps chez les lithiasiques en ictention biliaite avec angiochalite) Bull et amm Soe noi dechr. 12029, 1v 873:

The advasability of operating in the presence of ictrus especially ictrus accompanied by fever has afaays been a problem. When drainage by Lyons method is not lessable a two stage operation may be considered—first simple drainage, and then, after subsidience of the infection a radical procedure directed toward the essential lesson. The author reports six cases of ciolelithaiss in which a two stage operation was done during acute cholingetias with inclusive and a high oscilla time temporature.

In the first case, that of a woman forty none years of age, a subserous obolecystectomy was done in the first stage because it bappened to be easy and without further exploration a dram was placed in the common duct. The fever and icterus gradually subsided but a forentiegongarm showed a stone in the ampulla. The stone was removed at the second operation under the best of conditions. An excellent recovery resulted. Out of states that in such a case condecystection of the state that in such a case condecystection of the state that is such a case of the state of the state of the state of the condecystection of the state that the condecystection of the state of the gall bladder and exist duct longitudinally to the common duct

The second case was that of a woman fifty four years old who was operated upon for an acute in fection complicating choleithiasis of long duration Mine stones were removed from the gail bladder and six from the common duct through an incression in the cystic duct. Although the common duct was evulently still obstructed the operation was remnanted with drainage. Three weeks later after subsidence of the infection, five stones were removed from the lower end of the common duct by mobilization of the duodenum and a cholecystectomy was done Universitied Convergence of the control of the Mine of the Common duct by mobilization of the duodenum and a cholecystectomy was done Universitied Convergence.

In the third case, that of a man thirty four years of age, operation showed the hier to be enormously en larged and indurated. The gall bladder and cystic duct were incised to the common duct and sis small stones removed from the latter. The operation was terminated by drainings of the hepatic duct and

Iamponade Six weeks later the liver had returned to its normal size but s roentgenogram demonstrated a stone in the common duct. The stone was subsequently removed. The patient died of uner planned pertonitis.

Case a was that of a man suty four years of ay the presented all of the sugar and symptoms of subacute cholangeits. A loss of neight of about 40 is suggested the presence of a neoplasm Becaused the patient's precarrous general conducton the pall badder was drained under local anesthesa Considerable improvement followed. At a second operation of the part of the presence of the part of the presence of the part of the presence of the part of the par

time the patient gained 30 lh

The two other cases also demonstrated the rapid
subsidence of infection following drainage and the
advantages of the author's method of roentgan

graphing the bile passages
Cotte believes that if operation is done in two or
more stages many patients can he saved who would
probably succurint to any but the most ample
operation. While it might seem that the second
stage would be complicated by the changes left by
the first such is not the case if the probable of the
first such is not the case if the probaged fall
adhesions will not be too firmly optimized afth
adhesions will not be too firmly optimized afth
drain; will serve as a guide to the common duct
Auster F. De Goors M.D.

Deaver J B Causes of Morbidity and Mortality of Operation for Gall Stona Bisease Surf Gynec & Obst. 1929 xlix 308

The early stage of gall bladder disease is regarded as a manifestation of a general metabolic disorder in which the liver plays a prominent role. It is seen most often in young women coming to operation for symptoms of gall stones after a more or less recent pregnancy The gall bladder in such patients is usually normal in appearance and the bile is sterile One of the early manifestations of gall hladder disease is hile stasis Because of the stasis, bacteria brought to the gall bladder from the liver or the blood stream are not carned off, and infection re suits The infection spreads to the liver causing curbosis and later produces dilatation of the heart and myocardial weakness This chain of events can be prevented only by early operation on the gall bladder Medical treatment is prolonged and ex pensive and its effects are usually only temporary

In a follow up of patients who were not entirely relieved by cholecystectomy it was found that so per cent had had digestive trouble with attacks of sall stone colic for from two to twenty years during which time the disease had involved several organs.

From the surgical point of view the most regret table cause of postoperative morbidity is failure to remose the diseased gall bladder drain the common duct, and determine the patents of the papilla of Vater Contracture of the papilla by adema stricture, calcult or tumor may result in back pressure of

pancreatic fluid as well as of bile. Persistence of stones after cholecystectiony can be traced directly to delay of operation. When changes have occurred in the liver, stomach pancreas and other organs internal dranage by cholecysteduodenostomy or cholecysto gastrostomy may be established but drainings of the common duct with a T tube is better as stones are

likely to recur when the gall bladder is left in suia, in spite of anastomosis Chronic pylorospasm can be corrected by removal

of the anterior half of the pylone sphincter
Postoperative adhesions although not uncommon do not play as important a role as is often
attributed to them. The recurrence of symptoms so
often attributed to adhesions is more often due to
chronic pylorogistam.

A fistulous communication between the gall bladder and the duodenum or colon ultimately leads

to infection of the liver

The most frequent causes of postoperative morbidity and mortality are local or diffuse hepatic fibrosis cholangeitis and liver abscess

Stone in the common duct is rarely primary With few exceptions biliary calculi originate in the gall bladder. Involvement of the common duct is the

result of prolonged gall bladdet disease

In the author a clinic, the most common causes of death are cardon-ascular disease—acute dilatation embolism and coronary thrombous Most cardiac deaths are those of obese women in whom there is doubtless a deposit of fat about the heart that in most instances is already attacked by

Preumonia standal

Pneumona stands low in the list of causes of post operative deaths. This is explained partly by the fact that the operation is performed under intra-spinal anesthesia and partly by the fact that disternly is used. Liver shock is rarely seen by the author, probably because of the pre-operative care given and the use of distheriny during the operation.

A cause of death of patients with marked jaundice associated with calculus is undoubtedly the surgeon a failure to perform a preliminary cholecystostomy to

decompress the liver
In the pre-operative preparation of the obese
patient weight reduction is important but must not

be accomplished too rapidly

Hamorrhage is a rare postoperative complication in the author's cases because of adequate preoperative preparation with the infravenous administration of calcium chloride and X-ray irradiation of the spleen

Primary or operative bleeding is due to insecure ligation of the cystic artery resulting from inadequate exposure or to failure to close the gall bladder bed completely by suture

In the author's opinion the so called bile peritonitis occasionally given as a cause of death is in

most instances not peritoritis but intraperitorical leakage of bile

In conclusion Deaver says that improvement in

the morbidity and mortality of operations for gall stone disease is dependent upon early diagnosis and early surgery

STANLEY H MENTZER, M D

Gibbon J H A Review of the Operations Done on the Gall Bladder and Ducts Ann Surg

Cholecystostomy is often a life saving proce dure when other operations upon the bilary tract would carry too great a risk. This is true especially in acute empyema of the gall bladder and in the cases of patients who are old or in poor general con dition also when the operator is inexperienced

Stones probably seldom re form after cholecystos tomy. Those found in secondary operations are usually stones left behind at the first operations. When stones are overlooked, the patient is better off

with than without a gall bladder

Cholecystectomy represents the ideal operation yettheauthorteports that it was possible nonin about 70 per cent of 300 operations on the gall bladder and ducts. It is not without risk because of the disturb ances of the biliary circulation that follow. The danger of right to the common duct in the application of the forces to the cystic duct or to contain bloeding from the cystic street must be borne in all bloeding from the cystic street must be borne in all bloeding from the cystic street must be borne in adhesions follow-cholecystectomy than cholecystectomy. The number and type of adhesions following either operation are dependent upon the type and seventy of the infection.

The author has abandoned closure of the ab dominal wall without a soft rubber drain since it is well known that in a small percentage of cases bule leakage occurs after cholesy stectomy, either from loosening of the ligature on the cystic duct or from

open radicals in the gall bladder bed

A distret common duct in the presence of a functioning all bladder means obtinution and should be opened. It is often better to remove the stone brough a transducdenal inclination than by passing probes or forceps into the common duct as rough instrumentation is apt to produce many with subsequent streture. Anastomoses of the gall bladsistence of the subsequent streture and the subsequent cassful and valuable produced and the subsequent danger because of the possibility of rection as rending from the gastro intestinal tract

STANLEY H VIENTZER VI D

Cotte G \ Ray Exploration of the Bile Tract with the Injection of Liplodol After Cholecy steetomy or Choledochotomy (Sur Leydoration radio loggue des voies inhaires avec injection de lipidol apres cholicystotionie ou cholédocotomic) Bull et seim See not dechir 1939 1v 863

For the last four years the author has been routinely verifying the permeability of the bile passages after operation by \ ray examination with

the injection of ippodol through the dramage tube or fistual. When this procedure shows that the obstruction has not been releved re-operation can be done without variing for the development of a persistent fistual pane or jaundice. The dram erres as a guide to the common duct, and with the information furnished by the reentgeogram the surgeon can proceed directly to the suit of the disturbance.

In two cases the postoperative examination re vealed calcul in the common duct that had been overlooked After removal of the stones at a second operation, permeability of the bile passages was demonstrated The method sometimes reveals lesions of a different nature. In one case in which the jaundice persisted and the stools remained colorless after the removal of n large stone from the common duct, the first roentgenogram showed the entire bile tract to be dilated and the lipiodol to be passing into the duodenum with difficulty, but a second roentgenogram made several days later showed the limiddol passing more freely Removal of the drain was followed by rapid recovery. In this case the obstruction was probably due to pancrea titis Atsert F Dr GROST M D

Whipple A O The Surgical Treatment of Bile Typhold Carriers Ann Surg 2929 20 631

Duning rapo and rost there were about apposed cases of typhod fever in the United States with the production of approximately 7,500 typhoid carriers it has been established that the chronic carrier state arises in most instances in a convalence. The car irrespreads the hacilith jo both unne and faces the funne carrier state clears up quickly in only 1 per cent of typhoid cases does the bacilium containes for

as long as two or three months
Stool carriers may spread their infection for many
years. The stool may become infected from the
bowel Itself but in the majority of cases the infection noises in the liver or the gail bladder. Typhod
acidli were found in the faces during convalescence
in 21 per cent of 164 cases of typhod and in 14,
cases duodenal intrabston cultures revealed the
bacills after 3 consective stool cultures and been
reported to the stool cultures and been
consecuted to the stool cultures and
the bacills. Therefore duodenal intubation cultures
are even more necessary than stool cultures. It is
important to dufferentiate the intestinal from the
bile catter?

At the present time the New York State Depart ment of Health has a list of 210 active typhoid car ners Last year alone 20 new carriers were added One had had typhoid thirty seven years previously

No cure for the ble carrier state inher than cholesy atcomy or drainage of the common duct has been discovered. The author reports the case of a typhoid carriers who were subjected to chole existency or drainage of the common duct or both Six were operated upon late during convascence. The remaining 8 had had typhoid fever many months or years previously. Two patients ded fol

lowing the operation, both were deeply joundered and had bad long standing gall stone disease with foolangestis. The others were cured of the currer state with the exception of r whose dioderal bile still contains typhoid bacilli showing him to be a liver carrier and x who was subjected only to cholers stosion;

It the convalences becomes a carrier and his 3 mptoms of cholery stitus or cholery storaphic endence of gail binder disease, the gail binder should dence of gail binder disease, the gail binder should change of the carriers and the storage could be a tain the carriers after one are superculpy and to make tain the carriers after one are superculpy and to such the property of the storage of the carrier and binder from freeing fixed of infection. For the chronic hile carrier surgery is the only treatment offering any possibility of cure. Cholecystectoms is effective in probably to per cent of the case.

Routine cultures of the gall bladder wall bile and stones should be made after cholecystectomy. Six of the reported carners were discovered from the findings of such cultures.

res Stanley H Mentzer M D

Wolfer J A Bile Leakage from the Cystic Duct Following Cholecystectomy An Experimental Study of the Obliteration of the Cystic Duct Stump Surg Gyne & Obst 1919 the 461

The author followed the changes in the cystic duct stump after cholecystectomy in forty six dogs. Speci mens of the lighted cystic duct were studied greatly and microscopically at intervals of from one to thirty three days after the operation.

It was found that immediately after the choicycystectomy, the duct stump was covered by an exdate. The stump underwent aseptic necross will be eccopt to infiltration and partial absorption. The extent of the necrosis depended upon the blood supply, remaining to the dut. The more duct that was dissected free proximal to the ligiture starther proximal the necrosis tentil appeared in the cardiate about the stump. The extdate beam organized and varculatared. The duct stump under went fibrouss and finally appeared as a mass of scat tissue embedded in the organized evudits.

From the fourth to the auth day after the operation the duct was very brutle and broke ready at the point of ligation. To determine whether in creased intribulary pressure might rupture the duct at this point the common duct was cannot be pressure applied as high as 17 four at annual pressure applied as high as 17 four at annual to the instances leakage as the fourth and anoth postoprastive days. In one annual the duct ruptured the poart in ligation when a pressure of 66 mm. If a was applied

When gauze druns were inserted to the ligated duct and removed on the third postoperative day, et appeared that they either prevented exudate deposit ne drained anay the erudate about the duct and prevented adjacent structures from covering

the duct

The author concludes that since the cystic duct undergoes aseptic necrosis due to deprivation of its blood supply only a sufficient portion of the duct should he dissected free to establish its identity. A single ligature not too tightly tied, should be placed at the point of contact with undisturbed normal tis sues The organization of the exudate about the duct stump is the important factor in its oblitera tion Drainage material leading to the duct stump is undesirable because it interferes with the formation and deposition of the evudate. If a drain is removed at the end of seventy two hours it is pos sible for the trauma to supture the duct which is unprotected by a sleeve of exudate. If a drain is employed it should be placed well away from the duct stump so that it can in no way interfere with the formation of the evudate or with the collapse of the surrounding structures over the duct stump Dramage is rarely required to care for hile leakage and should be used for that purpose only when the duct wall is very friable or extensively changed by C W RAGENSEN M D a pathological process

Friend E Abnormalities of the Bile Ducts Their Vessels and Their Surgical Significance Illinois M J 1929 lvi, 169

The author reviews the variations in the blood symply of the gall bladder and the anomalous duest reported by Flint Kerr, Eisendrath and others and discusses the surgical catastrophes that may result from failure to recognize them The most common blunders committed in primary surgical procedures on the gall bladder are non removal of the diseased visues because of failure to appreciate its pathological condition the overlooking of stones in the ducts injury to the duets and anjury to accessory ducts. If proper exposure is obtained such errors will be avoided:

Flint's statistics show eight deaths from postoperative bile leakage during two leve years of bilarypurgery. It is probable that it most instances the elakage was due to the division of accessory duets. The author believes that after the tube has been proposed from the common duct no bile need support for the common duet no bile need support for the common from the proposed for the life recommends that dramage he established in all cases preferably through a stab wound

When an accessory duct has heen ligated the por tion of the liver that it drains does not atrophy as bile can make its way from one group of liver cells to another in the immediate neighborhood. When accessory ducts are cut and not ligated the small ducts gradually close as the result of creatment changes.

The author warns against lightion of structures en masse Stanley H Mentzer M D

Deaver J B and Burden V G Cholangeltis
Surg Clin V Am 1929 12 1920

The authors review the minute anatoms of the hile channels emphasizing the importance of the panetal saccult and mucous glands in relation to

ductal infections. When the bile channels are in fected, the saccult and glands are likewise involved, a fact which accounts for the seriousness and the long duration of most ductal infections Since in fection spreads from these areas or to these areas from the gall bladder, hver pancreas and other con tiguous structures cholangeitis is rarely a local lesion It is usually secondary to gall bladder dis ease, but may follow systemic infections fevers and ascending infection from a gastro enteritis. If the gall bladder infection includes stones and secondary ductal infection occurs by blockage, the typical signs of cholangeitis occur with intermittent chills and fever persistent jaundice, and stool changes. If sugrical intervention is delayed at this stage, pus accumulates within the ducts and liver abscesses occasionally occur. The gravity of the condition becomes proportionately greater as the surgeon's belp is withheld

Chincally, cholangeius occurs in essentially two forms, the acute and the chrome. The former is represented by acute catarrhal and acute suppura itse forms. The chrome variety closely resembles bepatitis and bilary cirrhosis. The symptoms are lated to the liver and its infections. In the severe lated to the liver and its infections. In the severe corns, there are recurrent attacks of few chrome forms, there are recurrent attacks of the divergence of the contraction of the liver and the liver presents the appearance of cirrhosis.

The most important factor in the treatment of cholangetits is its surgical management. Therefore the opinion of a surgeon should be sought early when the condition its acute external drainage of bile should be established by the most direct means. This may be accomplished by cholecystotiony. If there is any doubt as to the possibility of establishing direct external drainage of the common duet by a T tube is best. Internal drainage by the control of the common duet by a T tube is best. Internal drainage by seldon used because extlevished one of the common duet is also the control of t

STANLEY H MENTZER, M D

Leveul J Three Gases of Chronic Pancreatitis with Icterus Treated by Cholecystotomy Roemten Exploration of the Bile Tract After the fojection of Liptodo (Trois observations de pancréatite chronique avec ictère traitée par la choffes, stotomie exploration radiologique des voies bibaires après injection de liptodo). Bull et mêm 30c not de chr 1793 (b 1015)

The patients whose cases are reported were women forty ast twenty nine and saxty seven years of age. In the first case the condition was first manifested by a sudden attack of epigastric pain in the second by lever followed by repeated womting, and in the third by the relatively gradual development of diegestric disturbances and diarrhoz. A short time

after the initial ymptoms icterus began and grad ually grew darker with a greenish tinge. The stools hecame completely colorless This scterus from retention is not accompanied by fever. The only pain in the author's cases was that experienced by the first patient for twenty four hours in the beginning The gall bladder could not be pulpated but at operation was found distended. The general condition was eriously affected with resulting marked asthems and emaciation Such symptoms might indicate cancer of the head of the pancreas if the youth of some patients presenting them did not argue against such a diagnosis. In the author's second case the signs of attenuated pancreatitis described by Delbet were sought but as the pan creatitis was limited to the head of the nancreas they were not found. In spite of the clinical signs a diagnosis of calculus of the common duct was made because the roentgenogram showed a calculus in the gall bladder

Leveuf is of the opinion that most surgeons do not nay sufficient attention to the possibility of chronic pancreatitis in cases of icterus. When an course of operation the gall bladder and common duct are found distended without calculi and palpation reyeals an indurated nodule in the head of the pan creas the condition is either a cancer of the head of the pancreas or pancreatitis and the bile should be drained If the gall bladder contains calcult as in the author's second and third cases, it is difficult to be certain that the induration of the pancress is not caused by a stone impacted in the end of the duct Incision to determine this point involves the danger of serious bemorrhage. In the author's cases a cholecystostomy was done as the gall blad der was distended. Leveuf emphasizes the diagnostic value of the injection of lipsodol through the fistula when the intrapancreatic part of the common duct is obliterated

Chronic pancreatitis with interus has been attributed to infection from cholesyatius. The modelnee of stones in the author a cases (two of the three) was the same as that in Broqs a cases of hamorrhagic pancreatitis but it cannot be said that infection was present in the former as the valls of the gall bladder appeared normal and the bile removed during the operation was sterile. Level to believes that there are many cases of pancreatitis with interus which are not due to infection.

not due to infection in the control of the control

about by temporary drainage, cholecystostimy should be performed, while in severe cases denvation into the intestinal tract is ju tified

In the discussion of this report CLNEO said that he noted that Leveuf had hesitated to perform a tholecystogastrostomy in one of his cases because the bile was colorless and he feared that the gall bladder was isolated from the rest of the bile tract He called attention to the fact that the bile may regain its color when drainage is established. He stated that Terrier and Poiner performed a cholecysto enternstomy in a case in which the bile was colorices but, as the gall bladder was excluded the operation was of no henefit. Kehr operated later and found induration of the head of the pancreas The patient died As autonov was not performed it was never known whether the oh truction was caused by cancer AUDREY G MIRCUS M D

Bircher E. Surgery of the Pancreas (Die Chivirte der Bauchspeicheldruese) Schus m. d. Wickstein 1929 1 640

The most important conditions of the pancess from the standpoint of the surgeon and practitions are pancreatic necrosis chronic pancreatics hereign pancreatics have been as the particular and important is pancreatic necrosis which includes apopting of the pancreas and neutre adaption where pancreasing in cases that come to operation very early the picture is that of odern of the pancreas and histological examination are made of the pancreas in the pancreasing of the pancreas is perfectly of the pancreas is section on the surface of the pancreas is section on the wiface of the gland is to be found. The prognosis of oderms of the pancreasis good of the gland is to be found.

Necrosis of the fatty tissue is caused by the action of the escaping pancreatic ferment upon the steams. As the result of transportation of the trypsin con taining ferment distant effects may be produced especially in the pericardial and pleural spaces. The mortality is about 6, per cent. An important symp tom is the early serous peritonitis Sometimes sequestra of the pancreatic tissue and abscesses are lormed If no infection follows the necrosis, a crit may develop Large sections of the pancress may be destroyed before diahetes develops. One of the most serious complications is hæmorrhage due to digestion of the blood vessels. The etiology has not been definitely settled but the canalicular theory has received most general acceptance Obstruction leads to retention of the pancreatic secretion the trypsin then becoming activated. The vascular theo; is still debated As a result of the ischemia auto digestion occurs The experience of the World War showed that necrosis of the pancreas may follow trauma To cases of traumatic origin belong those in which lesions develop after prohing of the common bile duct, the ever ion or gastric ulcers and I gation of the pedicle of the spleen

The symptoms of affections of the pancreas are not always the same However the possibility of pancreatic di ease should be considered in cases of sudden severe pain in the upper part of the abdomen which radiates in all directions and is associated with collapse lowering of the blood pressure (janoss marked deterioration of the general condition and severe vomiting in spoonful smounts. The diagnosis is added by the Wohlgemuth reaction

In the treatment early surgical intervention is indicated. The torus secretion must be drained out ward and ultimately, the primary cause (occlusion of the excretory duct) must be corrected. Irrigation of the abdominal cavity with sodium chloride solution pistoperative glucose infusions, and the administration of insulin may be beneficial.

Chronic pancreatitis appears in a colicky, dyspeptic glycosuric, and icteric form. The diagnosis is

usually only probable

Cysts may result from inflammations of the pan creas and traumatic injuries. Exploratory puncture of cysts is strictly contra indicated as their contents may be of a tryptic nature and their escape into the abdominal cavity may have serious consequences.

The most important tumor of the pancreas is the carcinoma which usually occurs in the head of the organ. The prognosis of pancreatic carcinoma is very unfavorable. Treatment is futile.

Injuries of the pancreas have become more frequent in recent times. The Wohlgemuth reaction is positive after a few hours and a certain diagnostic sign. The best treatment is early operation. L Luzz (Z)

Armitage G Traumatic Rupture of the Spleen Involving the Pediele Splenectomy Complete Recovery Brst J Surg 1929 1921 335

Armitage reports a case of traumatic rupture of the spleen involving the pedicle which occurred in a boy nineteen years of age during a game of sugby The abdominal blow causing the rupture was re cerved at 3 30 pm and was followed by collapse After the sensation of being winded had passed the boy complained only of very severe pain in the left shoulder which rendered him unable to move the arm With the arm in a sling he was taken home in an automobile a distance of fifteen miles. At 6 pm he felt well enough to take a street car to visit friends two miles away At 9 pm he suddenly became faint and was again taken home in an auto mobile. He then became restless and pale and com plained of dyspnora cold sensations and pain in the shoulder more severe than before. He entered the hospital at 11 p m obviously suffering from internal hemorrhage A diagnosis of rupture of the spleen was made

After a short period of intensive antit shock treat ment the abdomen was opened. The peritonical civity was found full of blood. The spleen was practically free and on manupulation an alasming harmorrhage occurred from its torn pediode. After some difficulty in securing the pediode the harmorrhage was controlled. When the abdomen was closed the patient was barely alive.

Immediately after the operation the intravenous administration of saline solution and anti-shock procedures were instituted. After twelve hours the patient's condition was improved. Complete recovery resulted. When the patient was discharged from the hospital at the end of a month his blood count was normal and on re examination fifteen months later he was found to be perfectly well.

The diagnoss in this case was based chiefly on the pain in the left shoulder (Kehrs sign), the interval without swintoms lasting for five and a half hours which was followed by the sudden onset of shock, and the delayed or reactionary nature of the hamorrhage J EDWIN KIRETYRICK M D

Chiariello A G Gamna's Areas in Siderotic Spienomegaly (Le aree di Gamna e la spieno megalia edetotica) Ann stal di chur, 1929 VIII 979

In 1022 and 1021 Gamna reported three cases of splenomegaly in which there was no history of tuber culosis syphilis of malaria. On section, the spleen showed areas of compact granulomatous tissue made up of large numbers of connective tissue cells polymorphous cells and giant cells differing from megacary ocvtes and Sternberg's cells together with fibers impregnated with iron salts which were under going hyaline degeneration and necrosis areas are called 'Gamna's areas They are not specifie lesions as they are found in many forms of splenomegaly It has been held by some that they are of my cotic origin but this has not been proved Gamna says they are brought about by retrogression of the connective tissue into vitreous substance. In some cases be has followed up this process. The author regards Gamna s interpretation as the most probable but states that as siderotic splenogranulo matosis has not been demonstrated to be a clinical entity differing from other splenomegalies such as Banti s disease and thrombophlebitie splenomegaly, Gamna s theory that a special form of granulo matosis of the spleen is transformed into siderotic splenomegaly must be confirmed by a greater num ber of climical cases before it can be accepted

AUDREY G MORGAN M D

Stiven II E S Splenectomy for Egyptian Spie nomegaly Best J Surg 1929 Xvii 230

Splenomeçalv due to bilharza mansoni to one of the most disabling diseases to which the Egyptun lellaheen are prone. During the last mine years the author has performed 300 splenetcomies. He emphasizes that the operation is associated with great danger in these cases. His mortality within the first two or three months after the operation of a between 13 and 19 per cent. In a follow up on the between 13 and 19 per cent. In a follow up on the patients over a period three years he found that the control of the patients over a period to the control of the con

The preparation of the patient consists in the administration of carbon tetrachloride in a dose varying from 2 to 4 gm a full course of intravenous

injections of tartar emetic (o 12 gm every two days for twelve injections) a course of injections of sal varsan, and a diet with a high vitamin contcot This treatment which is continued for about six

weeks greatly improves the general health The splenectomy is done under spinal anysthesia It is frequently rendered very difficult by adhesions After the operation, fluids are given very spar

As a rule the patients leave the hospital after about fifteen days I FRANK DOUGHTY M D

Brin Splenectomy for Splenomedaly with Harmor rhage and Anæmia (Splénectomie pour splénomegalie accompagnée d'hémortagies et d'anémie sésul tat) Bull et mem Soc nat de chir 1020 by 061

The nationt whose case is reported was a woman fifty seven years of age who had been a cook in a cafe and had been accustomed to drinking a great deal of wine. About eight years ago she lost her appetite and became fatigued very quickly October 1927, she had a severe attack of hamate mesis which almost proved fatal and on January

10 1028 she had a secondattick On her admission to the hospital she was pale,

dyspnosic, and anomic Her pulse was 85 weak. and unstable Her abdomen was moderately dis tended and soft her spleen very large quite hard and painful on pressure and her liver slightly en larged Blood examination showed anximia and a decrease in the leucocytes. The author hesitated between a diagnosis of cirrhotic splenomegaly and

my cotic splenomegaly Laparotomy revealed a very large spleen with whitish spots of perisplenitis When the peritoneum was incised a considerable amount of ascitic fluid was discharged. The liver showed spots of glissoni The findings suggested cirrhosis but on account of the splenomegaly the author thought the spleen might have been responsible for the hamorrhages and removed it Histological examination of the spleen revealed diffuse sclerosis

The patient recovered after an attack of oneu monia Seventeen months after the operation she was in excellent bealth and able to work long hours without fatigue

The author does not know the cause of the splenomegaly, but is certain that the splenectomy prevented death from hamorrhage

AUDREY G MORGAN M D

MISCELLANEOUS

Mayo C Il The Mechanism of Abdominal Pain Brit M J 1929 11 703

Mackenzie and Lennander have claimed that pain is felt not in the viscera but only in the overlying structures Today this view has been practically discarded The structures in the abdomen are sensi tive to pulling clamping and tying

Most abdominal pain that is not due to peritoneal involvement is dependent either on undue contrac tion of a viscus or on extreme distention That pain

may be felt also during relaxation of a penstalic contraction has been shown by the recent work of I avne and Poulton on the asophagus

I ven the solid abdominal viscera appear at times

to be sensitive to nain

The parietal peritoneum is innervated mainly by the intercostal nerves. The phrenic nerves innervate not only the diaphragm but also the peritoneum on the under surface of the diaphreem. The sensors fibers in the visceral peritoneum and in the abdominal organs pass back to the spinal cord in asso ciation with the sympathetic nerves. The fibers from the stomach duodenum, czecum, ascending colon pancreas spleen hver and gall hladder return with the greater splanchme nerves, while those from the distal half of the colon go back through the hypogastric and the pelvic perves

The aplanchnic nerve contains pain fibers It is doubtful if the vagus nerves have anything to do with the transmission of pain sensations from the

Disease in the gall bladder or the liver may be accompanied by severe pain in the shoulder and the side of the neck. This suggests that the phrenic nerve must have something to do with pain in the

upper part of the abdomen The pains of peptic ulcer and of cholecystitis are not always felt in the same place This is not sur prising when one remembers how many complicating

factors there may be That our knowledge in regard to the mechanism of abdominal pain is still inadequate has been realized many times by surgeons as they have attempted to

relieve the gastric crises of tabes There are certain chronic lesions in the abdomen which produce pain of a type that does not fit well into any of the categories just mentioned As com pared with the skin the abdominal viscera contain

very few nerve endings therefore fairly large areas in these organs must be insensitive

When the character and site of an ahdominal pain tells something to the surgeon it does so not be cause he knows much about the underlying anatomy and physiology but because he had noted that particular pain many times before and remembers what he found when he opened the abdomen

Rodman J S Acute Abdominal Pain Associated with Spinal Cord Shock Ann Surg 1919 xc

Rodman states that acute abdominal pain with rigidity is at times associated with injuries to the apinal cord or its nerve roots He reports two cases

The first case was that of a man thirty two years of age who fell 50 ft from a scaffold landed on his back and supposedly received a blow on the abdomen from a plank On the patient s admission to the hospital he was in great pain and badly shocked His temperature was 97 3 degrees F, his pulse 66 and his blood pressure 80-20

Physical examination revealed tenderness over the lower thoracic and lumbar spine. The patient was unable to move his legs, and the reflexes were completely absent Anasthesa was found up to 6 in below the level of Poupart's ligament and about the rectum Bloody unto usa obtained from the bladder After six hours the patient lad not reacted from the shock and still compliaised of severe abdomind pain. His temperature remained subsequently the second of the second part of the second part

Because of the abdominal findings an exploratory planatomy was done under intruse south oxygen anasthesis. Nothing abnormal was found in the abdominal cavity. The next day the patient won ited at frequent intervals. The vomiting continued to tentry low hours and then stopped. The flacted for tentry low hours and then stopped. The flacted their was retention of urne and faces. The tendon refiness were negative.

\ ray examination showed an injury of the body of the twelfth thoracic vertebra caused by crushing A decompression of the spinal cord was advised

Lampectomy performed five days after the patients admission to the hospital disclosed a fracture of the twalfith thoractic vertebra due to crushing but no evidence of pressure on the cord or extradural likeding. When the dura was opened no agas of homorrhage edema or contision were found After the lammectomy there was shight improve ment in the symptoms but the paralysis persisted

The second case reported was that of a man tharty time; pears of age who complianed of several pain in the right hypochondrium after failing from a second story window. Because of the pain and the presence of rightly a rupture of the liver was suspected but within two hours the abdominal symptoms and shock subsided.

Roentgen ray examination showed a fracture of the lateral processes of the third and fourth lumbar vertebra

Rodinan has been unable to find in the literature any other case of severe abdominal pain associated with spinal cord shock which necessitated abdominal exploration. He believes that the pain and muscle nightly in his first case were due to irritation of the postenor roots by the fracture.

ALTON OCHNIER ALD

lliggins G \t and Graham \ S Lymphatic
Drainage from the Peritoneal Cavity in the

Dog Arch Surg 1929 IN 453

From this tather cursor, survey of the anatomical relations of the Jimphatic channels which function in the removal of particulate matter from the period for the document of the control curvey of the dog it are when that the thorace duct plays a relatively insignificant part. In normal dogs particulate graphite inspected directly into the Pentioneal cavity becomes readily visible in the displayment of the period of the

mal excursion of the diaphragm is somewhat modified the interval between the peritonical injection and the appearance of the graphite in the sternal lymphatics is greatly prolonged.

The injected graphite is visible in the sternal lymphatic trunks usually long before it can be identified in the cannulated thoracic duct. In one dog of the authors series a more or less rapid an pearance of the pigment in the thoracic duct was explained at necropsy when an unusual distribution of the lymphatics of the dorsal portion of the dia phragm was discovered to include major channels which were directly confluent with the thoracic duct Ordinarily the lymph of the thoracic duct is colored only lightly and then only after prolonged intervals when the lymphocy tes within it contain large num bers of the graphite particles probably phagocytes within the peritoneal cavity With the animal under ether anasthesia it is relatively simple to open the median line of the chest in the region of the first or second costal cartilages and thus expose the sternal or thoracic blood vessels. In this way the region may be watched and the first appearance of the black graphite in the clear lymph of the channel may be noted Preparations made of the lymph coming through these channels show that the graphite con tained within it is in the free particulate state just as it was injected into the peritoneum. On the other hand smears made from the lymph nodes in this region and fixed paraffin sections show that the ma terial is both in the cells and in the free state the particles having been phagocytozed by the large cells of the lymph node

If in the same animal or in one subjected to the same injection into the peritoneum a cannula is in troduced into the therace duct in the neck near its venous conductor samples of lymph may be taken for analysis. Within thirty minutes following the peritoneal injection diskly colored lymph may be recovered from the thorace duct in the neck. Analysis consistent of the peritoneal injection diskly colored lymph may be recovered from the thorace duct in the neck. Analysis consistent of the particle and partly in the largely imphorytes. The cells containing the graphite are probably derived from the lymph nodes of the pulmonary the trached or the sternal regions. The particles in the free state have passed directly into the lymph stream from

the draphragm By means of insuffiction Graham was able to develop a technique whereby the thoracic portion of the thoracic duct could be cannulated and samples of lymph easily collected for analysis of the cellular content. In a number of experiments lymph was collected from the thoracic duct of dogs that had previously received a peritoneal injection of the graphite preparation The sample taken immediately after the intraperitoneal injection was normally mph with the usual number of small and large lym phocytes During the first hour long after the sternal lymphatics were black, there was no evidence of the graphite in either the free state or phagocytic cells yet there was an apparent increase in the num ber of large lymphocytes An hour and a half after

the injection the larger cells of the lymph contained many granules of granhite but the smaller cells were entirely devoid of them. There were no free particles in the lymph stream at this time. Subsequently, with an increase in the number of the large cells small quantities of free graphite appeared in the lymph Also, at intervals of about two hours follow ing the injection, the larger cells contained the graphite in varying quantities and in many cases the cytoplasmic bodies were literally packed with granules Analysis of the peritoneal exudate showed masses of cells similar to those recovered from the thoracie duct, which were packed with the graphite material Unquestionably these cells of the thoracie duct are identical with those in the peritoneal exudate and they had probably entered the eisterna after phagocytozing the graphite in the pentoneal cavity The particles of graphite which were en countered free in the lymph of the thoracic duct probably entered the duct through the few small channels coming from the dorsal margins of the Samples of blood taken from the diaphragm femoral artery at this time contained occasional granules of free graphite, together with cells mod erately packed with the injected material

If one is to judge hy the degree of physiological activity and the number of lymph channels leading from the diaphragm it is apparent that the lymphatic paths coursing through the pulmonary region are more effective in removing foreign particles from the disphargm than the thoracic duct. These channels are not large and are by no means comparable to those which run along the sternum yet they are invariably present on the left side coursag forward through the related mesentenes to the lymph nodes at the base of the lung and usually are declined on

the right side although perhaps to a less degree In the removal of foreign particulate matter or hacteria from the peritoneal cavity these pulmonary lymphatic routes are perhaps the most significant from the standpoint of pathology Although they are not directly confluent with pulmonary lymph vessels they join with the latter in the nodes which he at the base of the lung. In these nodes the lymph drawing the two regions mingles and courses for ward in the channels of the mediastinum Accord ingly, although direct pulmonary contact with perstoneal drainage is not effected, any disturbance in the flow of lymph coming from the lung which in volves stasis or even a retrograde flow could well infect the lung with peritoneal organisms. These observations do not warrant such conclusions for the pigmented lung so often encountered in these experimental animals has of course, other explana tions However the common pulmonary complications which accompany abdominal operations on dogs may have their explanation in the lymphatic association of the two regions

GYNECOLOGY

UTERUS

Pouliot L A Safe Technique for the Application of Filhos Caustle (Le Filhos mossensis) Rev franc de ennée et d'obst 1929 xxiv 420

Pouliot insists that the poor results so frequently reported from the use of Filhos caustic in the treat ment of metritis are due to faulty technique. In the method he employs the cauterization is done nn the examining table with the patient in the gyneco logical position and with the aid of a speculum greing good exposure usually the Collin's speculum The neo Filhos pencil is used. The prefix "neo applies only to the shape of the pencil No preliminary injection of boiled water is made. On the contrary the field is kept as dry as possible. The mucus is expressed from the cervical canal by pinching the cervix hetween the valves of the speculum and the cervical canal and vaginal walls are then dried with cotton If the mucus is very ahundant and viscid oo per cent alcohol is employed. A small tampon of absorbent cotton soaked in a neutralizing acetic solution is placed in the posterior cul de sac to protect the vaginal mucosa from the fluid that may ooze from the cervix during the cauterization as this fluid is rich in potassium and calcium and may cause changes resulting later in cervicovaginal adhesions A Filhos pencil that has been used is more active

than an entirely new pencil The pencil is introduced into the cervical canal without force sometimes with a screwing movement On the first occasion it may not penetrate as far as the internal orifice Pouliot does not begin by treating the ectropion as he helieves this to be dangerous. In cases of old and intense metritis he touches the exterior lightly and superficially when he has finished cauterizing the canal The duration of the cauterization of the cervix cannot be measured in seconds Sufficient cauterization has been obtained when all of the surface touched by the pencil has become not brown but frankly dark and slightfy sanguinolent. This result may be obtained immedi-

ately or only after an appreciable lapse of time When the external orthice is narrow certain changes must be made in the technique Under such circumstances the canal itself is not necessarily narrow Pouliot does not approve of dilatation even with laminaria tents. He uses a tampon of cotton wool proportioned to the diameter of the external orince and not more than 3 cm long which he moistens with sterile water and then rubs with a used Filhos pencil until it assumes a greenish color He introduces this cotton into the cervical canal and leaves it there until the external orifice has taken on the dark color characteristic of escharification. He watches carefully for the caustic oozing which is

more to be feared than the action of the pencil itself, and is prepared to neutralize it. The cauterization is followed by immediate lavage. From 1/4 to 1/4 liter of boiled water is injected the filiform jet entering directly into the cervical cavity. This is done under the control of the eye. The vagina is then dried and a dry dressing applied

In cases of medium severity from fifteen days to three weeks elapse between the first and second treatments. In light cases the cauterization is not

repeated before six weeks

Of 100 unselected cases 15 required only 1 cauterization. So were cured by 2 treatments and 5

required 3 treatments Poulot does not prescribe absolute rest after the treatment but instructs his hospital patients to avoid fatigue during the day. His ambulatory patients he treats late in the afternoon. He pre scribes a daily antiseptic injection. For dressings he uses polyvalent bouillon vaccines

With the technique described he has found Filhos' caustic to be harmless The original part of his

procedure is the immediate lavage

Poulot has been able to determine the occurrence of subsequent pregnancies only in his private cases In the cases of 212 private patients there have been 58 pregnancies Four are now in progress 3 ter minated prematurely and 51 continued to term CARPENTER

Moench G L The flistogenesis of Adenomyositis Surg Gynec & Obst 1929 Thx 332

Adenomy ositis adenomy osis or endometriosis has been ascribed to (r) tissue displaced during embryome life (a) wolffian, (b) muellerian (2) tissue displaced after birth (3) direct invasion from the endometrium or endosalping (4) deriva tion from the pentoneum (serosal theory of Iwanoff and Meyer) (5) metaplasia of lymph vessels and spaces (6) metastatic transplantation through the vessels especially the lymph vessels and (7) trans tubal implantation (Sampson)

Inn Recklinghausen advanced the theory that adenomy omata are derived from the wolflian body but Meyer and Klein later showed that the wolffian body never descends farther than to about the inserting of the round ligament into the cornu of the uterus and adenomyomata below this point were subsequently attributed to changes in the wolffian

Another possible source of misplaced embryonal tissue is the muellerian system. As this tissue has the peculiar ability to react in a special way to the neary, it appears evident even on the basis of pure logic that displaced muellerian tissue must at times be the source of adenomyositic growths

After borth it is possible that endometrium may be transplanted fraumatically or by timor growth deep into the myometrium. Inflammation or smitation may cause possitiatal epithelial displacements and invaginations with or without metaplasis the resulting addingony ontil being produced by direct invasion of the surrounding structures by milectant insues with a companying metaplasia. That such a process is the most usual mode of production of adenomyosing rowths of myometrium and that metaplasia of the muellerian spitchem and that metaplasia of the muellerian spitchem is not rare must be admitted without question.

Many investigators have found that the serosa of the abdominal cavity is capable of transformation and of forming invaginations especially on the basis of an inflammatory reaction, but also

without such a reaction

The theory of the serosal or exclome histogenesis of adecomyosatis has much in its fator. The pic tures produced by the lovaguation of the serosa, with or without accompanying cytogene stroma have often been described. In the fight of our howledge today, the celonic theory is the only plausible one for certain types of adecomyosits. Frequently the endothelium of the humb vessels.

assumes a cuboidal shape. Wheo such Vessels be come irregularly surrounded by a lymphoid stroma or an inflammator, area, a picture of adenomy ossits may perhaps be simulated. This is true also of the

lymph glands in the pelvis

According to Halba's theory, endometral fragmots are transported by the Jymph vessels. While it must be granted that pieces of endometral tessue may perhaps at times be transported and found later in a vessel or space of a laboratory section of the properties of the properties of the proteating the properties of the properties of the new perhaps and the properties of the proteating the protection of the proteating the properties of the proteating the protection of the protection of the protection of the proteating the protection of the protection o

Sampsoo's theory is really two theories-one the traumatic implantation of tissue into various locations following lanarotomy and the other, the transtubal implantation of endometrium ioto the peritoneum For years the possibility of traumatic implantation has been admitted for certain rare Sampson has merely further substantiated The transtubal transportation this observation of endometrium or irritating menstrual blood does not appear logical to Moench as menstrual blood practically never exudes from the fallopian tubes and the tubal lumen is generally far too small for the transportation of fragments of codometrium which have been found in the tubal lumina, even if the possibility of antiperistalsis is admitted Moreover this endometrium has always been of the interval phase and has been dislocated trau matically The possibility that such endometrium might reach the peritoneum even if it were viable and advancing up the tube is very slight as the dis located fragment would probably be caught in the tubal folds under which circumstances endosal pingeal endometriosis would occur more frequently

than pertoneal implantations which is not the case. The explantation offered for this discrepancy is bit the tube is not suitable soil. This explantation had good so far as the direct transformation of the tubal structures into adenomyosine lenous is corrected but is not tenable for case of simple implantation and the fact that the tube at time recarts is shown by the not infrequent occurrent of salpingitis sathmica nedoes. Moreover elibous, but accessions celled have been found in the tubal limit carrooms celled have been found in the tubal limit carrooms celled have been found in the tubal limit carrooms celled have been found in the tubal limit carrooms celled have been found in the tubal limit to the carrooms celled have been found in the tubal limit to the carrooms celled have been described by transportation of the cells by the lymphate route.

Bazy and Hidden M5 omectomy Followed by Two Consecutive Pregnancies with Normal Labors (Myome tome surve de deux gestions successive avec accouchements norman) Bull See debit d de ginde de Par 1929 xvm 305

A homan thirty years of age was operated upon fragre fibromats of the uters. As she desired to have children a conservative procedure usastizend of Three tumors were removed—one the use of a small orange from the acterior uterine wall, another to sere of a fast from the posterior uterine wall, and a third the sure of a walnut from the left howal ligament. The curity of the uterine was oof opening. The curity of the uterine was oof opening the curity of the uterine was of opening the curity of the uterine was only one of the curity of the uterine was only one of the curity of the uterine was only one of the curity of the uterine was only one of the curity of the uterine was only one of the curity of the uterine was only one of the curity of the curity of the uterine was only one of the curity of the uterine was only one of the uterine was one of the uterine was of the uterine was one of the uterine was of the uterine was one of the uterine was of the uterine wa

Two months later the patient was pregnant. The pregnancy was terminated by cormal labor at term. The next year a second cormal pregnancy and labor occurred

Alexer F Dz Groz, M D

Hartmano Fahre and Dubols Roqueber The Treatment of Cancer Developing to the Vaginal Scur Following Total fill sterectomy (Trattement des cancers développés sur des creatness vaginales après hysteréctomie totale) Cyace et obst, 19 9 33 4

The authors review the twenty six casts of care developing in the vagain star following that all hysterectoms, which have been observed in the Cancer Clane of the Hotel Drus since 1922. The basterectomy was done for cancer of the cerey as meteric cases and for cancer of the corpus, from yours and an unknown condition in two cases each.

In ten cases because of the extent of the recurrence or pre-tous poor response to irradiation no irradiance was given. Seventeen cases were treated with radium only. Tubes cach containing in sign or 6.66 mgm of radium element with filters of 1 mm of platnum; mm of platnum; mm of platnum; and of adminiment and of adminiment and of adminiment and of adminiment and the sagnal dome and were left in place for firm from to eight days. Of the seventien patients to treated, are died of extension of the disease after

from five to eighteen months, one died after six years and four months from a recurrence appearing four years after the first treatment, and ten are at present alive and well from six months to six years

and six months after the treatment

See an patients were treated by Y ray translation only. In these cases there was no vaginal ulceration, the recurrence heing beneath the mucosa and in the broad lagaments. The oil immersed Coolidge the was used with 100 kilovolts filtration of from 12 to 2 mm of copper, and a six target distance of 50 cm. Four portals, one on each side of the median line anteriorly and two posterior parassarial portals were used to give a total of about 24 000 R as measured by the Salomon momenter. Six patients ded after from three to seventeen months and one salive and well two years after the treatment.

Two patients were treated with both radium and the \times rays because they had a recurrence in the vaginal mucosa as well as infiltration in the broad ligaments. One now shows extension of the disease six months after the treatment and the other is

living and well after eighteen months

The authors conclude that neither radium nor izy therapy is successful in cases of deep ultera tion or extensive infiltration of the broad ligaments, but when the ulteration is superical or there are callidower like masses without approcable deep militration radium treatment even without deep lipy irradiation, gives a cure in a considerable expensive the control of the control of the lipy irradiation gives a cure in a considerable seep patients subjected to total his sterectomy under observation in order that recurrences may be de texted early enough for effective treatment.

C W HAACENSEN, M D

Keller R Postoperative Complications Following Radical Hysterectomy for Lancer of the Cervix (Les complications post-operators sprès 1 by sté rectomie élargie pour cancer du col utérin) Gynée et obts 1020 x v 26

The author discusses postoperative complications of radical hysterectionsy on the base of his experience as director of the Departmental School of Obstetries at Strassburg In this institution shock is prevented by general pre-operative preparation of the patient rapid operation and himoustass as perfect as possible Operation in postponed if the patient shows the slightest evidence of bronchits. This precaution has made pulmonary complications a presented by the use of constitution and the control of the control

Keller does a biops, but avoids all other preoperative local treatment as he believes it spreads the infection which is always present in foct of cancer. He tried radium irradiation before operation, but pelvic pentonitis and possilpinguits resulted delaying the operative intervention.

Hæmaturia is usually due to hæmatomata in the bladder wall and as of no consequence paralysis due to section of the bladder nerves, is troublesome at first, but does not persist for longer than two or three weeks Cystitis usually clears up when the in lying catheter can be dispensed with Pychtis is more serious and may first become ap parent several weeks after operation Compression of the ureters by scar tissue causes urinary stagna tion which results in pielitis when infection is present Repeated ureteral catheterization is nec essary to prevent later pyonephrosis. When the parametrium is dense and infiltrated and the ureters must be freed by sharp dissection, the ureters are sometimes denuded too closely. A ureter so de nuded contracts and becomes hard white and smooth It may lose its vitality, and a uretero vaginal fistula may result after ten or twelve days

Rectovaginal fistula which the author has not observed among his own cases, tends to close

spontaneously

Intestinal obstruction is due to adhesions produce mg kinks. The Mikinker type of dramage favors the development of adhesions but the rare instances in which the adhesions cause obstruction are more than counterbalanced by the protection they afford against peritorists. In the author's two cases of obstruction he was able to intervene in time to save the patients life. CW MIARONEN, MID

ADNEXAL AND PERIUTERINE CONDITIONS

Dural and Ameline Fourteen Cases of Pyosalphar with Rupture into the Greater Peritoneal Caut ty Operation Thirteen Cures (Quatorie of servations de pyosalpin rompis dans le grand péritone opération treue guérisons) Bull et més Soc nail de chir 1929 ly 1070

The fourteen cases of pyosalpinx reviewed were seen in a period of five and a half years at Ameline's chine The operations were performed by eight surgeons and were done when the patients were in a state of generalized peritonitis in full evolution with free pus in the peritoneal cavity a temperature of 39 or 40 degrees C and a pulse rate of from 120 to 180 Bacferiological examinations of the peri toneal fluid were not made regularly. As there was only one death the mortality was 7 per cent Statis tics are cited in which the mortality ranged from 32 to 54 per cent The operations in the authors cases were performed from six to forty hours after the onset of the acute pentoneal symptoms. In the case with a fatal termination the acute symptoms had probably been present for eight days but their exact duration is not known

The operation was a unilateral salpingectomy in six cases (including the fatal case) a bilateral salpingectomy in six cases and a subtotal hysterectory in two cases. Drainage was established in thirteen cases by the insertion of a rubber tube under the pubs and in one case (the case with the fatal termination) by Douglas tamponade. As the

simpler operations gave as good results as the more extensive procedures the authors hold that they are to be preferred

Light of the thirteen surviving patients were recently re examined All were in good health One had a pregnancy which she carried to term, fourteen months after the operation One was sub sected to total hysterectomy two months after a unilateral salpingectomy CARPENTER

Lanman T II Ovarian Tumors In Childhood with a Report of Five Cases \ England J Med 1020 CC 555

Tumors of the ovary in childhood are very rare In a large percentage of the cases (60 per cent of the author's series) the neoplasm rapidly becomes malianint and even when the diagnosis is made early the prognosis is grave. Surgery is the only treatment by which a cure can be obtained. In the author's opinion radium and the 1 ray have not as set proved of value

Apparently benign tumors of the ovary in child hood should be removed as soon as the diagnosis is made as they may become malignant at any time In cases of obscure abdominal conditions in which a

tumor is suspected exploration is justified Rapidly growing malignant tumors can usually be diagnosed before operation from the clinical picture of rapid loss of weight and other signs of cachezia. Even in such cases exploration should be done as it is the only procedure which will definitely establish the diagnosis and there may he some chance of removing the growth CARL II DAVIS M D

EXTERNAL GENITALIA

Vajrynen S The Results of Treatment of Carcl noma of the Vulva (Ueber die Behandlungs resultate bei Carcinoma vulvæ) Acta Societates Med I ennica Duodecim 1929 viv 286

The author's material includes sixty seven cases Thirty seven of them were treated at the gynecolog ical clinic of the University in Helsingfors during the period from 1904 to 1927. The cases from the chine of Engstroem in Helsingfors the Laenskranken haeusern (public hospitals) of Turku (Aebo) and Wipuri (Wiborg) and the general hospital of Tampere (Tammerfors), thirty cases in all, are dis cussed in one group

Of the cases of carcinoma of the vulva which have entered the hospitals only a relatively low per centage have been found suitable for radical opera tion (in the gynecological clinic of Hel ingfors about 40 per cent and in the other institutions mentioned, even fewer) Cancer of the vulva can be cured with the nid of radical operation even when the inguinal lymph glands are involved In two of three cases in which there has been freedom from recurrence for more than five years enlarged bardened lymph glands were palpable on both sides. While the glands were examined microscopically in only one case, in this instance a definitely carcinomatous

growth was found. The results after five four three and two years in cases of vulvar cancer treated in the gynecological clinic are given in the

Period of	Radical operation		Relati (all op	tre cu es trations)	Abrol to cure (all cases ir aiel)				
Observat a	Cases	COLL SCI	Cases	No e	Cases	No te			
Over 5 years Over 4 years Over 5 years Over 2 years	7 9 9	3 5 7	12 14 14 17	3 6 6 9	17 19 21 25	3 6 6 9			

Of the thirty cases from the other hospitals, nine were operated upon more or less radically. Eight of the operations were done more than five years ago, but one of the patients could not be traced Of the seven other patients, one is living and well after more than seven years Biopsy before operation in the case of this patient showed carcinoms. All of the other patients operated upon radically died within about two years apparently of cancer

The incidence of cure from radical operation will be increased only by the excision of specimens for microscopic examination in suspicious cases and by bringing patients to radical operation as early as possible Local recurrence may develop even ten years after operation Among the cases reviewed by the nuthor there were two such recurrences. One of the patients died of cancer eleven years and the other twelve years and four months after the radical operation In histologically proved cases of car cinoma in this material roentgen and radium treatment without preliminary operation and operative removal of the tumor mebout removal of the regional lymph glands (whether they were en larged or not) never resulted in permanent cure

LAVRYLEY (Z)

MISCELLANEOUS

Generalized Bertrand P and Carcassone F Acute Gonococcal Peritoniris (Les péritonites augue's généralisées à gonocoques) Gynée el con 1020 XIX 171

Gordon was the first to recognize the possibility of the development of venereal peritonitis without symptoms of venereal disease The pathogenic agent is the gonococcus As a rule the portal of entry is the tubes The infection of the peritoneum is the more rapid and the more severe the more abundant and more virulent the micro organism. It depends on absolute integrity of the tubes and permeability of their ordices Menstruation coitus intra uterine dressings and the puerperium have been considered predisposing influences but in some cases the condition has developed in the absence of such factors

As soon as the abdomen is opened the presence of an acute generalized peritonitis is evident The perstoneum seems to react very feebly to the infer

tion probably because it does not have time to organize its defense. The pus is odorless and in the first few hours is not very abundant. The tubes are red and smooth and free from adhesions. Their mucosa is wine colored and there is considerable

submucous ædema

The syndrome is typical of generalized acute pentonitis Quite often the pain is localized in the lower part of the abdomen where the contracture begins Vomitting may occur early. The pulse is rapid and the temperature elevated. The condition may be confused with appendictins perforated upon the stomach ectopic pregnancy tusted pedicle of an ovarian cyst or acute salpingsits. Vagnal pulpation should be done to rule out uterine preg

As treatment the authors advocate the use of the Mikulicz drain They report five cases one of them their own Page

Fraenkel L. Abdominal and Vaginal Methods of Operation in Obstetries and Gynecology (Ab domunale und vagunde Operatuonsmethoden in der Geburtshifte und Cynackologie) Wonatsiche f Geburtshifte und Cynackologie) Wonatsiche f

Frankel briefly compares the abdominal and Vaginal routes of operation in different conditions

For most cases of myoma he has given up the vaganal sprotoch for the abdominal approach employing the former only for myomata mearcetated in the lesser pelvis and interfering with labor or showing degeneration. The use of the abdominal notice causes less loss of shood an important consideration in the cases of anomic patients and under cause in the cases of anomic patients and under cataling increasance allows conservative survery.

For the removal of an ovarian tumor the abdominal route is indicated. Fiven when the other ovary is apparently healthy it should be subjected to exploratory ovariotomy in order that centrally located metastases may not be overlooked.

In ectopic pregnancy the vaginal route is prefer able only in cases in which a purulent hæmatocele is

present

Frankel warns against extension of resorption and tradiation therapy in cases of severe inflamma two of the adnexa as rapid healing is often necessare. In this condition the vaginal route should be tred expectally when the uterus also should he removed. If difficults is experienced in the vaginal operation a change may be made to laparotomy. In

cases with marked adhesions and previous perforation of a pyosalping only an abdominal operation can be done

For displacements and prolapse of the uterus no definite rule can be laid down

For cases of careinoma, the vaginal route has recently gained importance. In careinoma of the corpus chornoepithelioma and sarcoma the ab dominal route should always be used in order that the frable uterus may be removed intact. For all doubtful cases only lapartoromy is to be considered.

In operations for sterility laparotomy is done more often today than formerly as the result of the

findings of perflation and salpingography

In chronic retracting parametritis the author operates by the abdominal route. For the incision of suppurating foct the vaginal route is indicated as the use of the abdominal route is too dangerous. For unnary fistular no definite rule can be laid.

down

In gynecological diseases the abdominal operation has proved simpler than the vaginal operation. Its technique is easier it gives hetter exposure, and it is less frequently associated with accidents. However gynecological surgeons must be able to operate by either route.

For the interruption of pregnancy, the abdominal route is being used more and more frequently, but the vaginal route cannot be abandoned. The operations to be considered are hysterotomy or colpotomy and median splitting of the corpus after it has been drawn forward by hullet forceps.

Rupture of the uterus should be approached by

The surgical treatment of puerperal sepsis is facilitated by abdominal operation

The question as to the best surgical intervention in labor is disputed more today than ever before The extension of abdominal section to placenta pravia premature separation of the normally implanted placenta frontal presentation and posterior particul presentation in accepted. Franched does not agree with Hirsch that the indications for casarian section should be still further widened.

In conclusion Fraenkel states that obstetricians who have learned nothing more of vaginal methods than the classical application of forceps will fail when they are confronted by a serious case of dystocia. Teachers must hear this in mind

A HEYN (G)

OBSTETRICS

PREGNANCY AND ITS COMPLICATIONS

Harding V J and Van Wyck H B Urobilinuma in the Vomiting of Pregnancy J Obst & Gynac Brit Emp 1929 XXXII 562

In the treatment of the vomiting of pregnancy it is necessary to consider four factors-starvation. dehydration hepatic dysfunction and neurosis The reason for the starvation is obvious. With regard to the dehydration the authors state that it is quite possible that the blood volume has become greatly reduced through blood destruction as well as through loss of water and that the raised serum protein values do not reflect a simple dehydration which can be overcome by the administration of fluids With regard to the hepatic dysfunction they state that it would appear that an increase in blood destruction and a decrease in liver function would lead to urohilinuria of a degree greater than would be produced by either factor alone, but until experi mental proof can be found that dehydration can give rise to urobilinuria by lowering the function of the liver parenchyma the finding of urobilin in the urine in cases of the vomiting of pregnancy may be regarded as evidence of hepatic disturbance of separate origin

Except in neuroses, treatment by the adminis tration of glucose and fluids is usually sufficient Occasionally the hepatic function is not restored with or immediately after the correction of the de hadration. In such cases the problem in the urine remains constant after the evidences of dehydration have disappeared and recovery is slow. The continued presence of urobilin in the unne is believed to he evidence of a disturbance of function in the liver parenchyma Accordingly duodenal feedings containing a large number of calories in the form of carbohydrates and with a low protein content are

The urobilinuria which is present in about 80 per cent of cases admitted to the wards of the Toronto General Hospital ordinarily yields to the usual methods of treatment. It is only in the occasional case that the disturbance of the function of the liver narenchyma per se is thought to be the chief etiologi GOODSICS C SCHAUPFLES M D cal factor

Solomons B The Symptoms and Diagnosis of Placenta Prævia Bril II J 1929 11 525 Lacey F H The Treatment of Placenta Pravia Brit M J 1929 11 527

SOLOMONS states that bleeding which occurs in the last three months of pregnancy and is caused by the separation of a placenta situated either wholly or partly in the lower uterine segment should be desig nated as "unavoidable hamorrhage, and the

This condition can occur only after the twenty eighth week which is the earliest time at which the child may he considered viable. Any hamorrhage occurring between the formation of the placents and the twenty eighth week of pregnancy must be attributed to miscarriage Solomons objects to grouping the partial varieties of placenta przvia with the lateral varieties as has been recently sur He explains the placental separation by the as sumption that the painless contractions which con

placenta should be designated as 'placenta pravia'

tinue during the entire pregnancy cause a dilatation of the lower segment which is soft and more dilatable than normal during the later months of pregnancy The placenta does not expand and therefore becomes detached No doubt, disease of the placents and it regularities in the capsular development are factors. According to various theories which are reviewed the hasic cause of the abnormalities is a fault in the endometrium-a true endometrius or a hyperplastic condition This assumption has been horne out by curettings taken about two months after the occur rence of placenta pravia

The chief dangers to the mother from placenta prævia are hæmorrhage and sepsis

At the Rotunda Hospital placenta pravia oc

curred once in each 183 cases of pregnancy With regard to the differential diagnosis of the hæmorrhage of placenta prævia from so-called accidental hæmorrhage, Solomons states that the former is to be suspected when fresh hamorrhage accompanied by clots but without pain occurs after the twenty eighth week of pregnancy, the fundus is soft and not tender the presenting part is high and there is a definite uterine souffle

In a suspected case of placenta previa vaginal examination should not be attempted until arrange ments have been made for any further procedure that may prove necessary as it may cause a serious hamorrhage requiring immediate action Dehnite palpation of the placenta should clear the diagnost Other conditions to be differentiated besides cocalled accidental hamorrhage are excessive show, varicose veins hæmorrhoids and carcinoma polyps and erosion of the cervix

Placenta prævia is more common in multiparous than primiparous women. It is less often accompanied by tovernic symptoms than is accidental

hæmorrhage It is not apt to recur

Solomons follows his diagnosis by the immediate submammary administration of saline solution. He regards this treatment as indispensable to combat possible shock. In the last 55 cases treated by him at the Rotunda Hospital in which it was used there were no maternal deaths

LACEY gives the results in 50 cases of placenta pravia treated at St Mary's Hospital Manchester during the last ten years. Many of the maternal deaths in these cases were due definitely to factors other than the placenta pravia.

MATERNAL AND FETAL MORTALITY

Maternal deaths Suffborths

	Cases	No	Per cent	Fer cent
Membranes ruptured	115	3	2 3	46
Natural forces	76	2	2 6	30
Version	273	21	76	81
External		1	3 5	
Internal	218	17	7.4	
Internal and extrac				
tion	17	3	17 6	
Breech	21	0		
Cæsarean section	33	2	6 0	13
Induction	15	0		70
Weighted vulsellum	11	۰		27
Forceps	7	۰		

Both Lacey and Solomons warn sgams the practice of temporating when once the dragnoss of placents provis has been made or even serrously suspected If such a course is to be adopted the patient must be in a hospital where immediate action can be taken in case of cerous beceding. In the patient man the control of the control of the by the hest obstetrical procedure possible at the moment

Lacey states that version has been the most common form of treatment as it may be carried out with only moderate obstetrical knowledge and still lowever the fetal mortality is appalling. Version with immediate extraction has had serious results for the mother as well as for the child. In the series of cases reviewed in which this procedure was used the material mortality was 77 per cent.

Createan section was performed in 33 cases. Eighteen of the women were primipare most of them in the last two weeks of pregnancy. In this group the miternal mortality was only 6 per cent and the incidence of stillburth 13 per cent. Last believes that in central placents pravia createran section may be performed slightly more frequently septeatly when the fetus is alive and near full term.

Willt's method of faing an instrument to the fetal scalp and attaching a small weight has been attended with considerable success in Lacry's cases. In 11 cases in which it was employed there was no maternal mortality and the incidence of stillburth was 27 per cent. There was no senious injury to the scalp. Goodwild Consultrial M.D.

LABOR AND ITS COMPLICATIONS

Jankelewitsch E. J. Cleidotomy on the Living Fetus (kleidotomie an der lebenden Frucht) Zentralbl f Gynaek. 1929 p. 1074

In the case reported by the author the mother was a primipara thirty years of age whose labor pains were weak and could not be strengthened by pituitin. As the labor was protracted for over sixty

hours, forceps were applied after incisions had been made in the edge of the cervity (which was dilated to three fingerhreadths) and the head was extracted for edge of the cervity (which was dilated to three fingerhreadths). For this purpose the author used a special edges of the purpose the finder instrument—an area and the second three finest the finder instrument—an area and the second three finest purpose the finder instrument—an area and the second three finders and the second three finders are finder than 10 mm. The ends of the blades are rounded in order to present injury to the mother.

The scissors were introduced under the control of two fingers of the left hand which fixed the clavucle and the bone was divided in its middle third. It was then easy to dee clop the shoulders and extract the child. The child weighed 4 200 gm. Its length was \$5 \cdot cm_1\$ and the width of its shoulders, \$1.4 \cdot cm_2\$ the shoulder was dressed with a sterile dressing and fixed with a Dessuit bandage in a guitable position. On the intreenth day there was callus formation on the transport of the twenty with consolidation of the fragment. By the twenty and of a more the X-ray revealed displacement of the fragments and the clavice showed thortening of 6 mm, but there was no disturbance of the function of the arm.

By undateral cledotomy, the circumference of the shoulder is diminished by from a 5 to 3 cm, and be beholder is diminished by from a 5 to 3 cm, and be behateral cledotomy it is diminished by from 5 to 6 cm. The subclavicular bundle of blood vessels and nerves hes deep enough to be safe from injury. In the middle there of the claved where the division is done, there is only the insection of the subclavius muscle. The sites of insection of more important muscle and the subclavius delicity, performs mayor and sternoclassionshood are situated later ally and are not injured.

Nothing can be said as yet with regard to the later function of the extremity after cleidstomy but judging from the functional results in cases of spon taneous fractures of the clavicle occurring during labor, the author believes that the outlook is good unless marked displacement occurs.

Jankelewitsch recommends elevaloromy in cases in which the shoulders cannot be developed in spite of correct posture. It is associated with less danger of causing rupture of the lower uterine segment and is less drastle for the child than forced extraction by the arms which may result in klumpke's and Litbs parals as

Grosse A Should Permeal Lacerations Sustained During Childbirth Be Sutured Immediately ((Dat-on suturer immediatement les déchurers du péranète survenues au cours de l'accouchement?) Res frang de 5 pinc et d'obst 1925 XIVI, 401

Lecene has recently advised against immediate structure of perineal lacerations involving the muscle. The results as he has seen them have been poor Crosse states that surgeons see chiefly the failutes in the opinion of obstetricians immediate repair is usually successful even in cases of extensive

faceration. The procedure is contra indicated bow ever, by infection devitalized tissues redematous infiltrated and rigid tissues in obese women and women with albuminuma, and the thick tissues fack ing in suppleness of women of lymphatic tempera ment The success of immediate suture depends largely on its being done immediately after delivery or within the next few hours. If it is delayed until the following day the chance of a good result is greatly lessened. In complete tears which extend deep into the vagina and especially in complicated tears involving the rectum above the sphincter the patient must be thoroughly anæsthetized and the lacerated area well exposed

The author reports briefly thirty seven personal cases of complete laceration with rupture of the sphincter but without involvement of the recto vaginal septum. The lacerations were repaired immediately There was only one failure necessi tating a second operation at a later date. In this case there had been marked dystocia the tissues were greatly damaged and the nuerperium was febrile. In thirty four eases the result was entirely auccessful. In one of the two cases m which it was imperfect the puerperium was febrile and in the

other there was secondary muscular atrophy Grosse reports also nineteen cases with more or less extensive cupture of the rectal nail above the anus and extensive vaginal laceration. In eighteen the result was antisfactors. The one failure oc curred in the case of a noman whose tissues were lacking in vitality. In four cases the operation was followed by a fistula, but in three the fistula closed spontaneously and in one it closed following a minor intervention. In three cases in which a successful result was obtained failure accmed probable be cause of the condition of the tissues the presence of fever in the days following delivery and the patient a general condition CARPENTER

Laffont and Larribère A Statistical Study of Uterine Rupture at the Alglers Maternity Hos pital in the Period from 1908 to 1928 (Etude statistique de rupture utérine à la Maternité d'11 icr 1978 1925) Bull Soc d obst et de gante de Par TO20 XVIII 413

During the twenty year period from 1908 to 1928 18 cases of rupture of the uterus were observed among 6 500 patients at the Algiers Maternity Hos pital Aine ruptures occurred among 6 000 European patients and o among 500 Algerian patients The frequency of the accident in the native women is due to the lack of competent attendants the frequent prac tice of abdominal expression and the fact that the Merian custom is against calling a physician labor in cases of serious dy stocia often lasting as long as a n eek

The accident occurs most frequently in multiparæ about thirty years of age. In the cases reviewed the responsible conditions were as follows

Deformed pelvis This was the cause in 4 cases all those of primiparæ

2 Abnormal presentation There were a shoulder presentations all in multiparæ 4 breech presenta tions 3 of which occurred in primipare and throw presentation

3 Inomalies of the fetus In a case of hydrocech alus the abdomen had been compressed for four days 4 The use of oxytocics In 1 case minine was a

possible factor lituitrin was the cause in 2 cases 5 Obstetrical maneuvers Abdominal compres sion was a cause in I case version in 5 cases dilata tion and extraction in s cases, breech extraction in a cases forcers delivers in a cases and embryotomy in 3 cases

The cuptures were usually recognized by vaginal examination after exacuation of the uterus Sudden violent pain never occurred. In 5 cases there was a flow of blood from the vagina Utenne mertia was noted only twice In all cases but I there were the classical symptoms of acute anatoia

All treatment other than immediate operation had n mortality of roo per cent Of the cases in which hysterectomy was done without drainage recovery resulted m 23 per cent Since the adoption of Mikuhez drainage hysterectomy has been followed by recovery in 75 per cent of cases

ALBERT P DE GROST M D

Grosse 4 Rupture of the Uterus During Labor Hysterectomy Twelve Hours Later Recovery (Aupture utérine au cours de l'accouchement hys térectomie douze heures après l'accident guérison) Bull Soe d obst et de gynée de Par 1029 Evil 402

The case reported was that of a woman who had had five previous labors the third and fifth termi nated by high forceps. In the sixth labor the cervis dilated rapidly but there was no tendency for the head to engage Application of high forceps was unsuccessful A dead infant of large size was finally delivered by difficult version and extraction. The hamorrhage was profuse and in the course of man ual delivery of the placenta a rupture of the u er s was discovered The patient was then transported for a considerable distance to a hospital where a laparotomy was performed twelve hours after the accident

The abdomen contained a large amount of blood that came from a tear of the left broad bgament and of the uterus which extended from the cervix to the base of the left tube There was also a superficial laceration of the sigmoid A supravaginal hysterec tomy was rapidly performed and the sectioned broad figuments and cervix were closed by a senes of mattress sutures to obtain hæmostasis. The left uterine artery could not be found Mikulicz diain age was established After a stormy two days the patient made an excellent recovery which was inter rupted only by a limited phlebitis in the calf of the feft leg

The author ascribes the fortunate outcome of this dubious case to the thorough repair of the peritoneum and the Mikulicz diamage

ALBERT F DE GROAT MID

PUERPERIUM AND ITS COMPLICATIONS

kickham C J The Treatment of Puerperal Sepsis N England J Med 1929 cc: 451

Kircham reviews the various methods that have been proposed for the treatment of puerperal sepas sepicially vaccine therapy, serotherapy, intravenous themotherapy, and hysterection and other surgical procedures and reaches the conclusion that none of them has been found of any particular value. Il believes that hysterectomy might prove to be his suring in certain carefully selected cases but lears that its universal adoption would lead to a higher mortality than non obtains. He advocates blood transfusion and stresses the importance of a careful section of donors, and the use of this lorm of teest ment early and often. The importance of prophy lass is emphasized.

MISCELLANEOUS

Westman A Experimental Studies Regarding the Functional Importance of the Cells of the Theca Interns (Experimentelle Studien ueber de funktionelle Bedeutung der Theca interna Zellen) ida öbit et gyate Stand 1929 ym 290

Westman reports experiments carried out on rabbits to determine whether the theca interna cells

are capable of producing hormones analogous to those organizing from the follicular cells. A few hours after costus, mature follicles were sucked out by the detachment and removal of the membrana gramulosa. The undamaged these interna cells remained in safu. The uterne mucosa was then examined with the microscope at definite intervals to determine whether it was the site of a reaction analogous to that occurring under the influence of the corpus luterum is no called pseudopregnancy.

It was lound that when the membrana granulosa
was completely removed no such reaction took
place Evidently therefore, the theca cells are
incapable of producing hormones with an effect
samilar to that of the hormones produced by the
folltudar cells

On microscopic examination of the ovaries it was found that the theca cells had degenerated a short time after extirpation of the follicular membrane

In one experiment in which the membrana granu loas was removed incompletely a partial corpus luteum formation arose from the remaining follicular cells while the theca cells showed no increased pro hieration within those areas of the follicular wall where the granulosa was missing It is clear from this that the theca cells are incapable of forming corpus luteum tissue

laceration. The procedure is contra indicated how ever by infection devitalized tissues ordenatous infiltrated and rigid tissues in obese women and women with albuminuria, and the thick tissues lack ing in suppleness of women of lymphatic tempera ment The success of immediate suture depends largely on its being done immediately after delivery or within the next few hours. If it is delayed until the following day the chance of a good result is greatly lessened. In complete tears which extend deep into the vagina, and especially in complicated tears involving the rectum above the sphincter the patient must be thoroughly anxisthetized and the lacerated area well exposed

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ALBERT F DE GROAT M D

Grosse A Rupture of the Uterus During Labor Hysterectomy Twelve Hours Later Recovery (Rupture utérine au cours de l'accouchement by térectomie douze heures après l'accident guérison) Bull Soc d obst et de gynec de Par 1929 xiii 401

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The author ascribes the fortunate outcome of this dubious case to the thorough repair of the pentoneum and the Mikulicz drainage ALBERT F DE GROAT VI D

rapidly developing severe infections of the upper unnary passages the diseased kidney should be exposed and decapsulated in order that any existing abscesses may be opened. Even in very severe in fections the kidney can sometimes be saved by such an operation performed quickly. Sometimes it is necessary to operate hilaterally. After the decap sulation and the escape of the infectious material, the lidney usually recovers very quickly.

A ROSENBERG (Z)

Klein P The Treatment of Ureteral Fistulæ by Exclusion of the kidney by X Ray Irradiation (Jur Heilung der Ureterfisteln durch Nesermauschal tung mittels Roenigenbestrahlung) Chieurg 1929 1 255

The author points out the dangers to the ureter in gnecological operations, particularly when the ureter is moved from its normal positions by tumor formations reutates or fluid accumulations or is distorted by neoplastic or inflammatory processes. The consequences of ureteral tupury vary depending upon whether the injury is caused by ligation or section and whether it is noticed at the time it is indicated. When the lesion remains unrecognized, a contracted by (i) restoration of the continuity of the ureter by removing a ligature or a compressing forceps or resuturing the ureter, (2) implication of the injured ureter into the bladder or intestine or the ureter of the other safe (3) surgical ligation of

the ureter or (4) nephrectomy Secondary nephrectomy for the cure of ureteral fistula is to be considered only when secondary im plantation of the fistulous ureter is hopeless or technically impossible. Secondary implantation is impossible most often in cases of ureteral fistula occurring after the radical Wertheim operation for carcinoma of the utenne cervis. Such fistula fre quently do not develop until quite late the third or fourth week after the operation Apparently there is an inflammatory process in the wall of the ureter Implantation of the ureter into the bladder is contraindicated by the inflammatory changes in the wall of the ureter the usually associated catarrh of the bladder and the inflammation in the renal pelvis Accordingly the only operative procedure possible is nephrectomy

The author has attempted to treat such fixtule by arresting kidney function by roentgen irradiation in four cases he closed the fixtual successfully by this treatment. After achieving these chinical results the carried out experiments on animals to determine whether the roentgen irradiation affects primarily the vessels or the tubules of the kidney.

Vicroscopic study of the kidney showed three stages. In the first stage there was a hyperzmus subdistant on the glomeruli and transulation into the capsule. The tubules seemed swolfen in the testing seemed stage the hyperamia and dilatation were second stage the hyperamia and dilatation were considerably increased the glomerula trutts had filled Bownan as capsule the glomerular trutts had filled Bownan as capsule the glomerular trutts had

burst and hemorrhage had occurred between the engillary loops. The blood vessels between the medulla and cortex were dilated and there was hemorrhage must be surrounding tissues. The third stage was a stage of contraction. The glomerull and the properties of the contraction of the contracted and throughout the kinney there was new formation of connective tissue.

These experiments therefore showed definitely that the kadneps may be severely damaged by it radiation. The human kidney may be so profoundly affected that its function is destroyed. Accordingly it is possible by intensive irradiation of the kidney to cure ureteral fistular which otherwise would require an operation for removal of the kidney.

ZILLMER (Z)

BLADDER, URETHRA, AND PENIS

Campbell M F Rupture of the Bladder A Clinical Study of Fifty Five Cases Surg Gynes & Obst 1929 2013 549

During a period of fourteen years at Bellevue Hospital, New York 55 cases of rupture of the blad der wete seen. As in this period more than 300 000 surgical cases were admitted, the incidence of rup ture of the bladder was 15 500. Twenty five of the cases of rupture of the bladder occurred in 166 cases of fracture of the pelvis.

Rupture of the bladder practically never occurs when the bladder is empty. Predisposing causes are distention alcoholism and mental aberrations. Over 90 per cent of the patients whose cases are represently are males.

As a rule the diagnosis is made at operation or autops. The condition is strongly suggested by a syndrome including shock signs of internal harmor thage dysams harmatuma absolute inability to umnite and tenderness in the region of the bladder it is suggested also a hen on callidians or far more umners obsained than was naturapated (draunage of the abdomes field with funcil

The immediate complications are shock harmor thage peritomits and fracture of the pelvis and the late complications extravasation of urine, sepsis and vesical fistula. Pentonitis developed in 23 of 37 cases of intrapentoneal rupture reviewed by the author

Of the fits five patients whose cases are reviewed all of these were operated upon. They left the hospital after from three weeks to air months of the 35 patients who died to were not operated upon and 2 lived less than ten minutes after their admission to the hospital.

Operation for rupture of the bladder is performed most safely under introus-oude oxygen anesthesia. The pertoneeum should be inspected and any time in the peritoneal cavity should be aspirated or drained. The bladder should be repaired rapidly and drained through a large tube and any peri

GENITO-URINARY SURGERY

ADRENAL, KIDNEY, AND URETER

Donati M. An Attempt to Treat Diabetes by Denervation of One Suprarenal Capsule (Tenua two di trattamento chirurgico del diabete con la enervazione di una capsula surrenale) frek ital di chir. 1979 xviv. 337

Cimanta of the author a clinic demonstrated that experimental pancreatic diabetes in animals can be cured by denervation of the supratenals. In testing this procedure in a clinical case. Douat denervation only one supratenal capsule the left. If sectioned only one supratenal capsule the left. If sectioned all of the nerve filaments that enter the pland from above or below, especially all those on the posterior surface and also the filaments which enter the bins with the vessels. Then in order to be absolutely certain that the denervation was complete the touched the persuperatenal tissue and the vessels of the hills with spinogs wet with 4 per cent plenol. Its admits that this last procedure is open to criticism, but states that it had no apparent unfavorable

The patient was a woman fifty four years of age who had sever diabetes with givosums and a fast ang glycmma of 285 mgm per 100 c cm Insulm was guen subcutancously up to a much as 50 units a day During the anulin treatment, the glycoura diappeared and the glycmus lell to 124 mgm per 100 c cm, but as 100 m as the 11911 mws 100 ped for a day there was intense glycosum and the

gh eemia fose to 180 mgm per 500 ccm. The left supersenal was decorated on May 16 1929, and the last doze of insulin before the operation was given on May 16. From May 14, up to the partner received the ordinary hospital dec. The usual postoperative increase in the blood sugar was bot noted but on the third day the gh-cruma rose first to 260 and then to 250 mgm her 100 ccm. at which level it remained for several days and then may be supersenally the community of the community o

The operative wound healed alowly. In the period from May 31 to June 12 Insulin was again given, the doses being decreased from 50 to 10 units. During this time the glycomia fell to 140 mgm per 100 c cm and the glycosina fell to 140 mgm per 100 c cm and the glycosina fell to 140 mgm.

At the time of this report, which was made a month and a half after the operation the glycam was 120 mgm per 100 ccm and the unne was free from sugar afthough the patent was on a diet rich in carbohydrates. The average duly quantity of unne had decreased from 130 fo 450 ccm and the hunger and thirst and other functional symptoms of diabetes had disappeared. The author concludes from these results that when the elaboration of adrenalin is decreased by denervation of one suprarenal the deficiency of insulin secretion is one pensated ATDERY G VIOGAS M D

Weiner K. Glinleal and Experimental Experiences with Regard to Ascending Infections of the Urinary Passage and the Effect of Deep salation on Three Diseases (Rinnish unitatation of the Passage Commission of the Infection der Harnwege und Wirkung der Debasolation bet diesen Erkrankungen). Zitche J. unit Chr. 1939 XXII 1.

After lymph tracts with efferent branches coursing in the adventitia were demonstrated by Teichmann and Krause in the wall of the ureter Lehndorff dem onstrated them in the ureteral mucous membrane Three parts can be distinguished in the ureter In the lowest part the lymphatics are connected with the lymphatics of the bladder and lead to the hy pogastrie glands In the middle part the lym phatics take their course to the glands of the sorta and cava vena and especially to the common sises. In the upper part some of the lymphatics are connected with the lymphatics of the renal pelvis and the kidney and others course to the glands of the aorta and vens cava According to Baueressen the lym phatics of the wall of the ureter are connected with one another is the longitudinal direction and a lymph stream runs from the mucous membrane to the adventitia According to Stahr the lymphatics of the renal capsule are connected with those of the renal cortex where they form a dense network From the corter pigments injected into the lym It bas phatics penetrate between the canalicult not been determined definitely whether they pass by way of the pyramids of Ferrein or along the arteres

The lymphatics of the submittons of the renal pelvis gain entrance to the renal parenchyma at the folds of the calytes. The circle is therefore completed as the lymphatics of the upper portion of the uteric are connected with the lymphatics of the

renal pelvis

The author reports four cases of ascending in fection. At no not of them the urter was stenowed and in all of them renal abscesses and not point phonous resulted the infection was not in the renal plevis or along the free luvien of the unnary passing the studies of the state of the studies of the plevis of th

Weiner's investigations have shown that infections can travel upward very rapidly. This observation is of great therapeutic importance.

cicatnical appearance Microscopic examination showed it to be a sarcomatoid rhabdomyoma with marked variations in the cell picture Fourteen months after the operation the child was still free from recurrence and metastases

Schreiner B F The Treatment of Epithelioma of the Penis Based on a Study of Sixty Cases Radiology 1929 xiii 353

In the diagnous of epitheloma of the pents styph alis and veneral warts must be ruided out. It is generally believed that all papillary growths on the glass pents are potentially malignant. Pents of the glass pents are potentially malignant pents occurs retainey hat but exertable, there is mission of the hmph channels. In the majority of cases the inquinal nodes are involved when the pattern seeks treatment and in over 75 per cent of these cases the involvement is haliant.

The most common site of epitheloma of the pension the glans has a rule the course of the dessess is relatively slow until it reaches the critical stage. Patients have been known to the eleven pens in the out surgical treatment. Recurrence is usually on served during the first year after operation had cases have been seen in which it did not develop with a first eight; tern. In forty one of the sixty case is the eleven pension of the lesson manged from six months to one ever In the other three was a history of ulceration of warty growths over a peniod ranging from two to fourteen vester to the other pensions.

The treatment which the patients had received before they consulted the author included cautern auton, the application of omtiment \times are tradical operation. Schreiner classifies the cases into two groups Group in was made up of twenty three cases in which the leason was confined to the penis and Group 2 of thirty seven cases in which there were definite metastrases in the lymph hearing areas of the groups.

In the first group unfiltered \ ray irradiation alone effected a cure which in two cases has lasted for ten years and eight and a half years respectively One patient who was treated by the implantation of radium in the lesion is still well today three and a half years later Unfiltered \ ray irradiation of the local lesion with high voltage \ ray irradiation over the groins and partial operation resulted in healing which has persisted for seven years in two cases for ten months in one case and for eight months in two cases Of eleven patients subjected to radical opera tion and irradiation six are fiving eleven seven five three one and one years respectively after the treat ment three died as the result of the operation one died six years after the operation from another cause and one died of internal metastasis after two years

In the second group unfiltered \ ray irradiation or the implantation of radium in the pinnary lesion together with high voltage \ ray irradiation over the groups resulted in healing or great improvement in the primary lesion but most of the patients so

treated died from thour metastases. In one case the mplantation of radium into the lesion with removal of metastation of radium into the lesion with removal of the state of t

IOHN P O NEIL M D

GENITAL ORGANS

Bugbee H G Cases of Unsuspected Carcinoma of the Prostate Discovered on Microscopic Section

J Urol 19 0 xxtt 363
Smith G G Total Perineal Prostatectomy for Cancer J Urol 1929 xxtt 377

BUGGET reports seen cases of prostatic carcinoma in which the findings did not agree with the often repeated statement that most prostatic carcinomats have their origin in the posterior lobe and that a cancer beginning in this lobe extends in an upward course along the posterior pelvic chain of lymphatics and early extends beyond the prostate

The carcinoma was first discovered in Bugbes ecases at pathological evanimation subsequent to prostatectomy. In six areas of malignancy were found in a lateral lobe or the median lobe. In all the carcinoma was surrounded by adenomatous hypertrophy but evidence of recurrence has been observed in only one. In none is there any sign of metastasis. In all the urinary function is normal

Three of the patients stated that their father or mother had died of carcinoma. The ages of the patients—fifty five sixty one sixty two sixty nime, seventy one seventy one seventy one seventy one seventy one seventy four and eighty—correspond to the ages in most senes of cases of prostatic hyper troohy

Five of the patients had retention of urne within a few days after they entered the hospital. Two of these five had had urnary symptoms for only as mouths and one had had such symptoms for only seven months before the development of the reten on. One had had difficulty in urnation for fifteen the modern of the set of the seven months before the development of the reten on one had had difficulty in urnation for fifteen of the set of the seven o

Difficulty in urnation was a more prominent sign than dysura. Two patients had nocturnal incon timence and large amounts of residual urine. Hama turn det not occur in any case. Three patients were free from infection but four showed chrome infection of the prostate seminal vesides and bladder.

Convalescence following prostatectomy was just as impid as in cases of simple hypertrophy

The author draws the following conclusions

r In the lateral and median lobes of the prostate small carcinomata occur which may be diagnosed only on microscopic section after removal. A more careful study of all prostates may make it possible vesical harmatomata or extravasations should be well drained MAURICE I MELTER M D

Werboff S Experiences and Results in the Treat ment of Vesical Calculus (Erfahrungen ond Re sultate der Blasensteinbehandlung) Zischt f Leol 1020 TYIH 661

The author agrees with Casper that hthornpsy is the best operation for vesical calcult. At the Casper clinic litholapany was done in 300 cases and the stone was removed by the suprapulae route 40 times. If the urethra will not allow the passage of the instrument it may be dilated with boughes Insurmountable difficulties are encountered only in cases of hypertrophy of the prostate \ markedli protruding prostate often does not allow the hthotriptor sufficient play to grasp a stone lying behind the prostate. In some cases of prostatic hyper trophy the instrument cannot be pushed through the narrowed prostatic urethra. When the stone has a diameter of more than 4 or 5 cm at cannot be grasped by the blades of the lithotriptor and when it is too hard it cannot be broken up Multiple small stones cause difficulty, and multiple large stones constitute a contra indication to hthotringy general infections acute urinary infections and severe diabetes are also strict contra indications although the importance of diabetes has been con siderably reduced by intensive insulin therapy. In the cases of children it is nearly always necessary to perform lithotomy This may account for the fact that lithotomy was done in 103 per cent of the cases reported by Werboff whereas it was done in only 6 of 302 cases reported by Schlagant next an only 4 per cent of cases reviewed by Loewenbart and in

only 2 per cent of those reported by Frener The proper preparation of the patient previous to hthornpsy is of the greatest importance. I atients with chronic catarrh of the bladder should be subsected to a general course of disinfection. Even to those without demonstrable inflammation of the bladder, the author administers urmary disinfectants by mouth for one or two days previous to the operation Before every lithotripsy the position of the stone and its relationship to the prostate and a

possible diverticulum of the bladder should be de-

termined by cystoscopic examination The type of an esthesia is of great importance As the instillation of 2 per cent alypin even in a quantity of 100 ccm is not sufficient the author recommends spinal anæsthesia induced with impococame For the removal of small stones para sacral or epidural anasthesia is usually satisfactory The bladder must not be overdistended as a rule from 100 to 150 c cm is the proper amount of filling. When the stones are large the evacuating catheter should be used after they have been crushed and then the ramasseur. The cystoscopic examination should then be repeated to determine whether any mjury has been done and after this examination the bladder should be irrigated with silver nitrate solution Medium sized stones and

even large stones may be reduced in size by snipping off fragments with Young's forceps

It ben the stone debris collects between the blakes of the lithotrite so that the blades cannot be com pletely closed at may be dislodged by striking the blades of the instrument together sharply. Hema

turns if it occurs must not be allowed to continue longer than twenty four hours. In pro tates bæmorrhage may occur in the posterior arethia but this is without serious consequences if it is stopped by the use of a retention catheter Epididymitis may also develop but is usually prevented by rest in bed for two or three days. The administration of an abundance of fluids and of unnary district tants by mouth washes and disinfects the bladder

The chief danger of hthotripsy is dissemination of the infection to the upper urinary passages. This danger is especially great in patients with prostatic hypertrophy and insufficient emptying of the

bladder Of the 6 patients who died in the series of case reviewed by the author 3 developed first an ascend ing and then a generalized sepsis r had lues with paralysis of the bladder I died from chloroform anæsthesia and r died from suppuration of the contents of a diverticulum of the bladder after A RONEVEUR (Z) operation

Publ H Sarcoma of the Urethra Report of a Case of Myosarcoma (Zur kenntan der Sarkome der Harnroehre Mitteilung eines Falles von Myo ar lom) Zische f Urol 1929 vvui 583

Sarcomata of the urethra are rare. Only twenty four cases have been reported in th literature They occur much less frequently than the epithelial neoplasms with which they have certain common characteristics as regards etiology and chinical fea tures Their development at an early age which has been mentioned as characteristic is not diagnostic as only five of the patients whose cases are on record were less than thirty years of age and thirteen were more than fifty years of age. The majority were females According to their histological structure the tumors may be classified as round cell sarcomata lymphosarcomata melanosarcomata abrosarcomata and their subvarieties Chronic inflammatory scritative conditions of the urethra are believed to play a part in their origin but the author reports a case of myosarcoma which was a typical example of a

congenital germinal tumor growth The author's patient was a boy eight weeks old who had had anuma for forty eight bours tensely filled bladder was palpable in the hypo gastrum as a spherical tumor The perineum in the region of the ureth a was bulged outward by a urethral tumor the size of a walnut which could be clearly felt on all sides. The tumor was removed through the permeum the stump of the urethra then being united by suture over a catheter Rapid recovery followed The tumor measured 3 5 by 3 by 4 cm Its cut surface showed muscular fibrous structures with the inclusion of circular foci having a

taken with a sudden intense pain in the right groin and the right side of the scrotum The scrotum at once increased in size and became heavy. The pain irradiated the length of the cord Rest in bed caused no improvement Four days after the begin ning of the pain a scrotal swelling the size of a large duck egg developed on the right side with cedema and wine red coloration of the skin The pain was most severe in the epididymotesticular groove cord and epididymis were thickened and the tunica vaginalis testis contained a layer of fluid. The testicle itself was unchanged. The inguinal rings were widened and gaping on both sides but there was no trace of hernia. The general condition was good The usual treatment of orch epididy mitis brought no relief

An inguinoscrotal incision revealed a congested cord which had exteriorated the testitude without torsion. When the tunica vaginalis testia va opened a citron colored fund escaped and the walls were found lined by false membranes. There was a single sessile hydrid of Morgani of normal aspect. On the external side in the epididymotesticular cul desica among the thicker and more adherent false sea among the thicker and more adherent false.

membranes there was a blackush turgescent purform mass the size of a large landery bean. This was attached to the epidermis only by its smaller extrem its, which formed a pedicle. There was no torsion. The small turnor was ligated and resected, and the tuckened and bleeding turnic vagnalis tests was existed. To effect hermostasis the raw edge was whip statched. On microscopic examination the turnor was disgnosed as a was aberran of Haller or a pura epidelymal cyst. Solar and Huard believe at scribed by Roth in 1876 and by Poirrer in 1890, which detached itself from the refe testis.

MOUCHET, who read their report before the Society suggested that the necrobious of the embryonal rest may have been due to a torsion not discovered. He emphasized that wheneve the syndrome described cannot be attributed to a unethral infection or a general disease operation with the professional properties of the cord with a secure and when there is torsion of the cord with a created and when there is torsion of the cord with any case it will prevent such sequele as serous or Paces.

Pace Taxon Taxo

to detect small suspicious areas which would lead to prostatectoms in cases in which palliative measures might otherwise be continued

2 The sudden onset of retention in the presence of comparatively mild unnary symptoms may be

suggestive of malignancy

3 I rostatectomy may be carried out quite as easily in cases of the small carcinomata described as in cases of simple hypertrophy Prefiminary supra pubic drainage to allow subsidence of the cedema and infection is an advantage 4 There is no evidence suggesting that the small

amount of trauma incident to the removal of the prostate causes a squeezing out of cancer cells into the lymphatics with consequent spread of the disease Swith reports the results obtained in twenty six

cases of cancer of the prostate by total perincal prostatectomy. In this operation the prostate and vesicles are exposed by means of an inverted U incision the entire prostate including its capsule a more or less wide zone of the bladder neck and most or all of the seminal vesicles are removed and the hiatus so made is closed by careful suture of the bladder neck to the stump of the urethra just prox imal to the posterior layer of the triangular ligament

Young drains the bladder only by a urethral catheter but Smith establishes drainage also by means of a tube inserted through a stab wound made just above the trigone as he has found that when

this is done healing occurs more quickly With regard to the indications for total penneal prostatectomy, Smith states that the patient s con dition must be such that he can stand an operation with a duration of at least ninety minutes. The use of spinal anasthesia increases the margin of safety considerably but the circulatory system must have a fair measure of reserve. The existence of metas tases which would probably prove fatal within a year is a contra indication Digital examination and cystoscopy must show that the carcinoma has not extended any farther than the vesicles pos terrorly and that it has not invaded the bladder wall except on the trigone close to the prostate where it may be removed without interfering with the ureters On rectal examination the finger should be able to outline the prostate laterally and reach the upper edge of the indurated area with ease

The ages of Smith a patients ranged from fifty to Unnary obstruction had been eighty four years present for one year or less in eighteen cases for from one to two years in four cases and for from two to three years in four cases The amount of residual urine at the time the patient entered the hospital ranged from none in three cases to complete retention in seven cases

The duration of the symptoms and the amount of obstruction are not an index of the extent of the carcinoma. In many of the cases reported the ob struction was due to hypertrophy occurring in the lateral lobes and not to the carcinoma

In the cases of patients with residual urine, drain age was established by catheter until the renal func tion and the general condition were satisfactory in the earlier cases the type of anasthesia varied but lately spinal anaesthesia has been used almost with out exception

The operation does not produce much more shock than an ordinary prostatectomy. In the cases re viewed there were three deaths in the hospital One of the twenty three patients who recovered devel oped a recto urethroperineal fistula following radi The twenty two others remained in the hospital for an average of thirty two days after the operation Smith usually leaves the urethral catheter in place until the perineum is well healed

Control of urmation is often rather slow in returning It may be greatly improved by dilating the point of union of the bladder with the urethra with

One of the author's patients was operated upon too recently to be included in a di cussion of the re sults Three had no control after the operation One of the latter was suffering from tabes dorsalis and one was a mental defective who had dubbled con stantly before the removal of the prostate The third was operated upon some time ago at the Massachu setts General Hospital Smith is unable to account for the lack of control in this case except on the ground that recovery is usually not as quick o as complete in hospital cases as in private cases

Eight patients died of cancer after leaving the hospital Of these one lived five years and nine months and was bedridden for two years two lived two years and two months one hved one year and six months three lived one year, and one lived three months None of these patients, so far as can be as certained developed urinary obstruction or any im JOHN P ONER MD portant vesical symptoms

Hunt V G. Carcinoroa of the Prostate Gland and Prostatic Capsule Developing Subsequent to Prostatectomy for Benign Prostatic Hyper trophy J Urol 1929 xxii 351

In the case reported definitely encapsulated beingn adenomatous hypertrophy was present in association with carcinoma. The gland was readily enucleated and careful section failed to show any evidence of a malignant condition. However mi croscopic examination of tissue removed from the prostatic capsule at autopsy disclosed definite car cinoma The author states that if the patient had lived and chinical manifestations of a malignant process had appeared at a sufficiently later time it might have been suspected that this was a true ex ample of malignancy developing in the prostate gland and prostatic capsule subsequent to prostatectom) for benign adenomatous hypertrophy

Soller L F and Huard P Subscute Orchitis Gaused by Necrobiosis of a Vas Aberrans Orchite subaigue par nécrobiose d un vas aberrane) Bull et mem Sot nat do chir 19 9 le 730

The case reported was that of a man thirty-six years of age who while ascending a stairway was

The author concludes from his studies that Le Double's first and second degrees of sacralization which were found in 75 per cent of the persons ex amined are normal forms whereas the fourth fifth and sixth degrees may cause deviations of the spine, contractures and pain

From the roentgenological point of view patho logical sacralization is characterized by a very great ly enlarged transverse apophysis in contact with either the sacrum or the iliac bone Unilateral sac ralization is frequently the cause of a deviation of

the spine (scoliosis)

The clinical picture of sacralization is essentially that described by Bertolotti and Rossi except that as a rule there is no muscular atrophy and cutaneous sensibility remains intact. In all probability, the asymmetrical fixation of the spine to the pelvis is responsible for the pain and contractures

Resection of the asymmetrical and hypertrophied transverse apophysis was followed by cessation of the pain in cases reported by Adams Van Neck kleinschmidt Nove Josserand and Mauclaire Also in the cases of two nomen with unilateral sacraliza tion in which this operation was performed by the author it resulted in a prompt and definite cure of the contractures and pain

SURGERY OF THE BONES, JOINTS, MUSCLES TENDONS ETC

Tuffier Bolting the Joint In Osteo Arthritis (Fasai sur l'enchevillement articulaire dans les ostéo arthrites) Presse med lar 1929 xxxvit 989

Tuffier says that he has never performed the Robertson Lavalle operation Ilis object in bolting the ends of the joint with fragments of bone is simply direct immobilization of the joint Under general or local anasthesia he perforates the two joint ends in the direction most favorable for their perfect immobilization and in the best attitude for ankylosis and then cuts a fragment from the crest of the tibia of the right length to transfix the ends of the bones. He drives one two or three of the fragments into the perforations in the bone cuts them off level with the surface of the bone and closes the skin with two hooks. After the operation, the limb is immobilized in a plaster cast for from six to eight weeks

Tuffier emphasizes that a roentgenogram should be taken of the joint in order that perforation of a focus of tuberculosis may be avoided and that care should be taken not to bore through a dead space

such as the intercondy loid space

Tuffier has performed ten operations for tuber culosis of the bones and joints in this was-four on the sacro that joint four on the knee and two on the tibiotarsal joint. He had no operative mortality In one of the two cases of operation on the tibio tarsal joint recovery resulted without complications but in the other it was complicated by an in fection from a generalized furunculosis. In three of the four cases in which the Luce joint was treated

resection finally became necessary, but in one the first operation resulted in a permanent cure Of the three cases of operation on the sacro iliac joint good results were obtained in two In one of these the result was so remarkable that Tufner thought he might have made a mistake in the diagnosis One patient operated upon for sacro thac tuberculosis was not helped by the operation at all The tuber culosis bad not opened externally in any of these cases but two of the patients had cold abscesses

The ten cases are reported in detail

AUDROV G MORGAN M D

Wheeler Sir W I de C The Role of Operative Treatment in Tuberculosis of the Large Joints Irish J W Sc 10 0 6 8 640

In the cases of children with tuberculous joints radical operation should be avoided and conservative operations are to be considered only when general conservative treatment fails or is followed by recur rence In the cases of adults operation should be preceded and followed by open air treatment. The ideal to be attained is either a painless movable joint or a firm bony anky losts

The belief that the tubercle bacilli cannot be found in the tuberculous pus is erroneous as their presence can be demonstrated by diligent search. They have been discovered also in the urine of persons with tuberculosis of the bones and joints Their presence in the urine indicates a tuberculous focus in the uri

nary tract This focus beals coincidentally with the healing of the bone lesion

Following a discussion of the various operations on the different joints the author draws the follow ing conclusions

In the treatment of the hip and knee which have been ankylosed by a tuberculous lesson which has healed arthroplasty has a limited field of usefulness 2 In cases of relapsed and prolonged tuberculosis of the hip extra articular fixation has given satis

factory results 3 In the cases of adults with well established dis

ease of the Lace, excision of the Lace is the only suc cessful treatment 4 Before amputation of the foot is attempted

astragalectoms or removal of the os calcis or both should be tried. In the cases of children astragaled toms is indicated when conservative treatment has failed 5 In tuberculosis of the elbow excision gives the

best results A GOTTLIEB M D

Hodeson > Volkmann s Ischæmic Contracture Treated by Transplantation of the Internal

Epicondyle Brit J Surg 1929 XVII 317 Following the method described by Bailey in the October 1928 issue of the British Journal of Sur gery the author transferred the inner epicondyle with the attached flexor muscles downward on the ulna in a typical case of Volkmann's contracture which had not responded to conservative treatment. The immediate result of the operation was not highly

SURGERY OF THE BONES, JOINTS, MUSCLES, TENDONS

CONDITIONS OF THE BONES, JOINTS, MUSCLES, TENDONS, ETC

Carnett J B and Case E A A Clinical and Pathotogical Discussion of So (atted Suba cromial Bursitis Surf Clin \ tm 19 9 17 1107

In fifty cases of subacromal bursts the author was unable to detect any printogened changes and the bursa itself but discovered a calcarcous depost on or under the suprespinative tendon. He states that the symptoms accribed to burstis are in reship due to a lesion of the tendon of the suprespination muscle whether a calcarcous depost is present or and Ast the chical potting differs little in cases with most constant of the suprespination tendon.

The common cause of the lesson is occupational trauma and hot a single injury. The condition occurs most frequently in persons who work with their hands while holding the clooms away from the chest In this postition of the arm the tendon is bruised or junched between the greater luberosity and the acromion of the corses acromal learners.

The symptoms vary with the seventy and the stage of the lesion In the acute cases the pain is felt along the distribution of the brachial plexus. It may extend from the neck to the finger tips or may be restricted to an area in the arm or in the arm and fore arm. The area immediately overlying the bursa is usually not namful Motion is restricted because of the pain and muscle spasm. Abduction and inward rotation are affected most. An area of maximal tenderness will always be found at the edge of the acromion process and greater tuberosity When a calca reous deposit is present its position corresponds to the site of greatest tenderness. The pain may last from three to five weeks and then cease or the con dition may become chronic with milder symptoms lasting for months or years. In chronic cases there is some restriction of motion due to habit contractures from prolonged disuse of the full range of rota tion during periods of severe pain

In all cases of bursus without calcareous deposits the treatment should be con eriative. Even in the great majority of those with calcareous deposits the deposits undergo spontaneous absorption in the course of a few weeks under conservative therapy. The symptoms usually cease when the absorption is complete but in some cases the pain may recur mild to fir a vegar of longer after the deposit is gone.

In recent acute cases operation causes immediate cessation of the symptoms. In chromic cases such a rapid cure is not to he expected probably because the deposit cannot be as thoroughly removed A COTILIES M.D.

Panner tt J A Peculiar Affection of the Capituturn Itumert Resembling Catré Perthes Disease of the Itip 1cta radiol 1919 x 234

The author reports three eases of an elbow affection the origin of which was immediately related to a definite trauma. The patients were boysten years of age or younger.

The clinical symptoms of the condition are mild consisting only in minor functional disturbances Undoubtedly complete restitution to normal occurs eventually but the course of the disease is long—

three years or more
The rootingen picture is typical Only the capit
ulum humen is affected. At first there we only
sight translations resembling fissures together with
a certain bluring of the structural dates. Zeleterm of the picture of the picture of the picture
as a whole resembling that of the occusion that
the picture is a whole resembling that of the occusion that
the field of the femure in Callé Perthets disease.

I ventually the osseous center gradually resumes its normal shape and appearance. The affection undoubtedly belongs to the same group as Calve Perthes disease. Its cause is unknown

Dandy W E A Loose Cartilage from an Inter vertebrat Disk Simulating a Tumor of the Spinat Gord Arch Surg 1929 ax 669

The author reports too case in which a things diagnoss of extrahoms of a certician warde but at exploratory operation the timore use found to one sate of cartiage and fluid accumulated in the reaction to the irritation raused by fragments of an interior territal time. Which had become detached and dirplaced backward bulging into the spiral cand in both cases the cause was trainin. The first

symptoms were pain radiating down the boks of both figs which was were on the side of the rester indiging of the tumor mass, seve e pain in the balticity of the tumor mass, seve e pain in the balturely negative. It has a principle to the form the treely negative. Later there as a rapidly in the several sory and motor paralysis with one sequestrone. After removable of the paralysis with one sequestrone of the paralysis of the sequestrone of the sequestrone of the form of the sequestrone of the sequestrone of the sequestrone of the motor power did not begin and last sevene or east weeks and was very slow. Ultimately recovery as sulted. A Gortius Mr. A Gortius Mr.

Ingebrigsen R Sacralization of the Fifth Lum bar vertebra (Sacralization des sien Lumbal wirbets) Acta chirurg Scand 1970 in 183

Inatomic sacralization of the fifth lumbar vertebra must be differentiated from pathological sacra hization The author concludes from his studies that Le Double's first and second degrees of sacralization which were found in 75 per cent of the persons et a mined are normal forms whereas the fourth, fifth and sixth degrees may cause deviations of the spine contractures and pain

From the roentgenological point of view pathological sacralization is characterized by a very great by enlarged transverse apophysis in contact with either the sacrum or the iliac bone. Unlateral sacralization is frequently the cause of a deviation of

the spine (scolosis)

The clinical picture of sacralization is essentially
that described by Bertolotti and Rossi except that
as a rule there is no muscular atrophy and cutaneous
sensibility remains intact. In all probability the
asymmetrical fixation of the spine to the peliys is

responsible for the pain and contractures. Resection of the asymmetrical and hypertrophied transverse apophysis was followed by cessition of the pair in cases reported by Mains Van Neck Kleinschmidt. Note Joserand and Maiochire. Also in the cases of two women with unlateral sarcalization in the case of two women with unlateral sarcalization and the same of the contractures and pain.

SURGERY OF THE BONES JOINTS, MUSCLES, TENDONS, ETC

Tuffler Bolting the Joint in Osteo Arthritis (Fssai sur lenchevillement articulaire dans les ostéo authrites) Presse méd Par 1929 xxxvii 989

Tiffice says that he has never performed the Robertson Lavalle operation. He object to bolum; the ends and the point to the point the ends simply direct immobilization of the point. Under secretal or local anasythesia he perforates the two point ends in the direction most flavorable for their perfect immobilization and in the best attitude for their perfect immobilization and in the best attitude for each point of the point of the cutts a fragment from the crest of the tibus of the right length to transfix the ends of the bones and the bones. It drives one two or three of the fragments into the perforations in the bone cutts the state of the bone and closes the cutter of the bone and closes the bone that the surface of the bone and closes the state of the bone and closes the state of the bone and closes the surface of the bone and closes the state of the bone and closes the bone contribution of the bone cutts are stated to the bone and the bone cutts are stated to the bone and the bone cutts are stated to the bone and the bone cutts are stated to the bone and the bone cutts are stated to the bone and the bone cutts are stated to the bone and the bone cutts are stated to the bone and the bone cutts are stated to the bone and the bone cutts are stated to the bone and the bone cutts are stated to the bone and the bone cutts are stated to the bone and the bone cutts are stated to the bone and the bone cutts are stated to the bone and the bone cutts are stated to the bone cutts are stated to the bone and the bone cutts are stated

Tuffer emphasizes that a roentgenogram should be taken of the joint in order that perforation of a focus of tuberculosis may be avoided and that care should be taken not to bore through a dead space such as the intercond-loid space

Tuffer has performed ten operations for tuber culous of the bones and joints in this way—four on the sareo that joint four on the knee and two on the subcrateal joint lie had no operative mortality and the thoursal joint lie had no operative mortality and the thoursal joint lie had no operation on the tibus of the two cases of operation on the tibus and the lie of the two cases of operations on the tibus large of the two cases of operations on the tibus large of the two cases in the operation of the lie of the l

resection finally became necessary, but in one the first operation resulted in a permanent cure. Of the three cases of operation on the sacro line joint, good results were obtained in two. In one of these the result was so remarkable that Tuffier thought be might have made a mistake in the diagnosis. One patient operated upon for sacro line tuberculosis was not helped by the operation at all. The tuber culosis, had not opened externally in any of these cases but two of the natients had cold abscesses

The ten cases are reported in detail

AUDRES G MORGAN M D

Wheeler Sir W. I. de C. The Rôle of Operative Treatment in Tuberculosis of the Large Joints Irish J. M. Sc. 1929, 6 5 649

In the cases of children with tuberculous joints radical operations should be avoided and conservative operations are to be considered only when general conservance treatment fails or is followed by recurrence. In the cases of adults operation should be preceded and followed he open air treatment. The ideal to be attained is either a painless movable joint or a firm bony anks) loss.

The belief that the tubercle baeilli cannot be lound in the tuberculous put as erroneous as their presence can be demonstrated by diligent search. They have been discovered also in the urine of persons with tuberculouss of the bones and joints. Their presence in the urine indicates a tuberculous focus in the urin any tract. This focus heals coincidentally with the healing of the bone lesson.

Following a discussion of the various operations on the different joints the author draws the following conclusions

1 In the treatment of the hip and knee which have been ank-losed by a tuberculous lesion which has healed arthroplasty has a limited field of usefulness 2 In cases of relapsed and prolonged tuberculosis of the hip extra articular fixation has given satis lactor, results

3 In the cases of adults with well established dis ease of the knee excision of the knee is the only suc cessful treatment

4 Before amputation of the foot is attempted astragalectomy or removal of the os calties or both should be tried. In the cases of children astragalectomy is indicated when conservative treatment has failed.

5 In tuberculosis of the elbow excision gives the best results A Gorries M D

Hodgson N Volkmann's fschæmic Contracture Freated by Transplantation of the Internal Epicondyle Brill J Surg 1929 xm 317

Following the method described by Bailey in the October 1938 assue of the British Journal of Surgery the author transferred the name epocoads with the attached feroir muscles downward on the ulna na typical case of Volkmans contractive which had not reaponded to conservative treatment. The mimediate result of the operation was not highly

successful but at the end of three weeks there was considerable improvement, and at the end of two months the improvement was quite marked Robert V Fusno, M D

Steindier A The Compensation Treatment of Scoliosis J Bane & Joint Surg 1929 21 820

In the compensation treatment of scolosus the attempt is made to restore symmetry undirectly by means of compensatory curves instead of directly by correction of the scolosus. The telaration of the spine necessary to produce the secondary curves must be obtained with care in order that it may not exceed the ability of the active muscular apparatus of the sine to control it.

The central portion of the primary curve is too rigid to be broken by the moderate force applied to procure the compensatory curves but the extrem ites being more plable are drawn into the second ary curves as the latter become developed. Accord anyli, curves of moderate rigidity become shorter as their peripheral portions are absorbed in the counter curves.

The development of counter curves requires the existence of a fixed point within the primary curve against which the secondary curves above and below are established

The dynamic problem involved in the compensation method is the maintenance of alignment by active muscle balance. This depends entirely upon adequate development of the body musculature.

The formation of a secondary curve is effected by a rather simple program of active and passive ever cases. The museulature is developed by a much more protracted and varied system of symmetrical and asymmetrical gymnastics supplemented by massage

The compensation treatment fails in the most severe types of habitual scolosus the majority of cases of congenital scolosus and the more severe types of paralytic and rachitic scolosus but the author concludes from his eypenence that when the cases are properly selected it will restore the normal body balance.

Henderson M S Reconstructive Surgery in Paralytic Deformities of the Lower Leg J Bone & Joint Surg, 1939 xi 810

The foot of man has been gradually developed from an arboral grasping member to a terrestrial weight bearing member. Changes in body structure, forced by altered function have gradually taken place, the heel has been lengthened while the tarsal base discreased and the digits and metaturish has e discreased in size and significance. The activation of the control of

Restoration of nerve supply to the muscles by neurotization has not been successful. In selected cases, considerable restoration of function may be accomplished by tendon transference in shadily insertion of a functioning muscle is transferred to another insertion. Support by particular decide tendense has a function application. Intificial self, and lancing lagrantistate usually unsatisfactory in the foot. The most winds, applicable and visibility may be a former of the foot. The most winds, applicable and visibility of the foot. The most winds, applicable and visibility and the foot of the most five which effect substitution by present of the foot. When and and the foot effect operations of Campbell and Putit. The combination of tendon transference and arthrodess rehances the value of transference and arthrodess rehances the value of

FRACTURES AND DISLOCATIONS

Scudder C L The Treatment of Recent Frantures of the Long Bones by Operation Ann

Surg 1929 xc 589
Darrach W Disasters Following Operative Treat
ment of Fractures Ann Surg 1929 xc 595

Scoppez emphasuse that the operatus trial ment of recent furtures requires thenest echange ment of recent furtures requires thenest echange and apparatus. The surgoon must have more than the menural legal requirement of skill Successful results are dependent also upon the prevention of infection skillful administration of the aussitate the choice of the proper procedure for the given case adequate pre-operative and postoperative care and early mobilization of contiguous joints.

In some cases open operation me, mean columns and replacement of the fragments in accurate apposition. In others it will be accessive to far the fragments with shorbfulle sutured or splint the fractured bone with a metal plate of plate does not interfere with calls formation to any practical extent neither does the operative in cason hinder repair if it is properly placed.

In properly selected cases of recent fracture open operation should not be delayed as a last resort It is indicated as the primary procedure in many fractures into joints with displacement of frag ments fractures of the great tuberosity of the humerus fractures of the surgical neck of the burnerus with dislocation of the head of the bone displacement of the condyles of the humerus not beld by acute flexion fractures of the olecranon certain fractures of the elbow in adults certain metacarpal carpal and metatarsal fractures cer tain fractures of the head and neck of the radius fractures of the radius with deflection of the frag ments toward the ulnar side irreducible fracture of the shaft of the femur displacement of a femoral condyle fractures of the patella certain spiral frac tures of the bones of the leg and certain fractures of the os calcis

In conclusion Scudder reminds us that in open reduction as in all other methods of treating fractures the chief goal is function. Accurate and formical apposition is not essential to good function but poor alignment is not to be tolerated. Of great importance in the restoration of function are mas

sage and early mobilization

DARACH savs that when the surgeon deedes upon open operation in a given case of fracture he should bear in mind the potential disasters that may follow such treatment in order that he may fecteres the danger of their occurrence. Such disasters are most frequent in the cases of surgeons who do not appreciate either the need. For porting infortunate results.

The most common complication is infection, the results of which vary from slight interference with primary union to sepsis necessitating amputation or causing death. Chiefly because of its poor blood supply hone is of all tissues the least resistant to

Hamorrhage caused by the operation or the trauma may prove fatal

Disturbance of the blood supply by the dissection or by too much stripping of the periosteum may

result in delayed union or non union
Faulty material employed for internal fixation
may break or otherwise fail necessitating a second
operation Plates and screws should always be

tested before being used

Poor technique a faulty approach the lack of proper tools rough handling of the tissues and careless immobilization are other factors which may result in failure

In conclusion the author says that an error in judgment may lead to an unnecessary open operation when a more careful study of the roentgenogram would show the feasibility of closed reduction

WILLIAM A CLASE M D

Bancroft F W The Process of Union After Free tute Ann Surg 10 9 xc 546 Ashhurst A P C Is Accurate Reduction of a Fracture Necessary? Ann Surg 19 9 xc 556 Speed A Non Union After Fracture Ann Surg

19 9 vc + 4
Estes W L Jr The Immediate Treatment of
Open Fractures Ann Surg 1999 xc 583

Beckeyor has found in his experimental work that callus formation is sufficient at ten days to prevent the replacement of over nding fragments even though the bone may still be movable at the fracture site. In this stage the callus is gelatimous in communited fractures the small free fragments show no cell nuclei on microscopic examination show no cell nuclei on microscopic examination sifer two weeks but after four of the weeks have an canals containing red blood cells and bone cells with nuclei have been found. After from eight to with nuclei have been found. After from eight to represent the summaries of the

The source of calcium salts for the callus is probably in the fragments at the fracture site

rather than in the blood stream. If comminuted fragments from the fractured bone of a dog are taken out boiled, and replaced union will occur in a normal manner, but if the fragments are decal cified before they are replaced only fibrous union will be obtained.

The most important factors in the treatment of fractures are accurate apposition of the fragments and an adequate blood supply to insure the growth of granulation tissue which is the precursor of calliss Muscle tissue reacts to pressure in the same manner as fluids, and in the swelling which follows fracture this pressure may be sufficient to occlude some of

the bfood vessels

ASHHURST states that in cases of shaft fractures of the long bones in children very accurate reduction is not essential as very marked deformities have been known to straighten out with growth However, if the fracture is near a joint more accu rate reduction is indicated even in children. In the cases of adults who are not able to remodel their bones by growth fairly good apposition and align ment must be obtained However very little dis ability will result from lack of apposition in the shaft of a long bone provided bony union results in a good axis line without rotation and with no more than r cm of shortening Especially in fractures between the knee and ankle there must be no rota tion deformity because neither of these toints is capable of rotation to compensate for the difficulty If oblique fragments are transposed (eg, the an tenor cortex against the posterior cortex and over riding), they should be reduced. More careful atten tion must be given to the reduction of fragments near joints, except perhaps at the shoulders where scapular motion will compensate for limited shoulder joint motion. Fractures of the lower end of the radius are often followed by perfect function even when there is gross anatomical deformity The aim of treatment in any fracture is restoration of perfect function and this is dependent only in part upon the form of the hone

SPEED reports that in a study of the calcium phosphorus content of the blood in over oo cases of fracture he found it was practically the same in cases of non union as in those with normal union. The phosphorus content rase quickly after a fracture, but it does so also after any operative procedure.

Speed bases his conclusions regarding non union on seventy four cases. He states that the cause of non union its probably always local Internal spluting should not be used in operations for non union if it is possible to maintain contact of the freshead bone without them. When internal spluting is necessary it is best done with the patents own bone. Ostopernosteal grafts and bone hash furnish good stimulation to callus formation. Sometimes simply drilling through the fragments results in enough hemorrhage to start new bone growth Careful and prolonged external spluting is essential. The percentage of cures after operations well planned and executed its constantly increasing.

Estes states that in cases of open fractures un mediate surgical care is imperative. First aid should consist in splinting without replacement of protruding bone. On the patient's arrival at the hos pital he should be treated first for his general condition and given tetanus antitovin. In the operating room the skin should be cleaned without much disturbance of the wound and the open wound then freely sponged with hychlorite or Dakin's solution After surgical removal of all debris including crushed muscle fragments and completely detached small bone fragments the fracture should be reduced as accurately as possible. The wound may then be sutured tight or left wide open or drained at one end according to the judgment of the surgeon Many surgeons favor complete closure followed by very few dressings

If completely closed the fracture may be treated as a simple one and a cast applied. When there is an open wound requiring dressings skeletal traction is more suitable. The advisability of plating of fresh compound fractures is debatable. The value of a plate in certain cases cannot be ignored Although statistics of a series of cases in which plates were used showed that convalescence was more prolonged and union was more frequently delayed than in cases treated without plates it is probable that the plating was done in the more serious cases and the results may well be attributed to the original seventy of the fracture rather than to the applica tion of the plate. I lates are used by many experienced surgeons including Shouds Litason Fagge and Sherman MILLIAM A CLARE M D.

Puttl V The Farly Diagnosis and Treatment of Congential Dislocation of the flip (Ancora per la diagnosi e per la cura precote della lus assone congenita dell anca) Chir d organs di morimenta 2019 111 529

The author revues twenty four cases of congent acidalocation of the phy which were treated by means of a special pad. The oldest patient was a yearold and the oldest patient was a yearold and the oldest patient was between six and eight months. The method failed no only two cases of marked displacement in a patient with congenital rapidity of several joints and bilateral displocation with very marked displacement in a patient with congenital rapidity of several joints and bilateral club foot. The pressure was not sufficient to overcome the addition registry of the hips and the objects of the pressure was not set of the secretly of the condition than the failure of the mother to apply the treatment six semantically.

The chiral symptoms which most frequently say gest the deformity are external rotation of one or both limbs which is almost always associated with abductor huntation, shortening the sign most frequently noted by the mother, and asymmetry of the stanfolds which is generally noted by the physican. The final diagnoss must be confirmed by roomen examination.

The article contains numerous nontegronums showing different types and states of laminon part luxation and sublivation. There are three super latant rountings ages of prefusition The first separation between the head of the femu rad the hase of the acticabulum which may or may not be accompanied by upward migration of the end of the femur. The second is hipporhus of the renter old afficient of the epithy sof the femur and delay in its appearance, which is of course out missist is appearance, which is of course out missist is absorbed obliquity of the run of the activations, such a but the more than the contraction of the properties of the such as the contraction of the properties of the such as the contraction of the properties of the such as the contraction of the properties of the such as the contraction of the properties of the such as the contraction of the properties of the such as the contraction of the properties of the such as the contraction of the properties of the such as the properties of the such as the properties of the properties of the properties of the such as the properties of the properties o

The author reports a case in which the dangers was made from whommad soliquitive of the mol of acctabulum in the first twenty jour hours of life it emphasizes. So however that even normally their considerable variation in the degree of inclination of the similar of that the obliquity most plusting the considerable variation in the similar of the sim

Puttl \ Early Treatment of Congenital Dislocation of the Ilip J Bone & Jonal Surf 19 9 22

Putt contends that there is no reason either theoretical or practical why treatment for one gentral dislocation of the hip should not be began before the second year of age. While the diagnoss is not easy before the child begans to walk the dislocation would be discovered eather of the hap were examined rocatigeologically in cases in white the child smother has noticed that one lond sprace limb appear at tittude from the child creating that the child creating the conlone limb appear and or that one limb is hid one certain degree of flexion and the child creas if he stiemples to correct the flexion.

The objection that the condition of the joint is not suitable for stabilization before the second var of age is not valid as it is now possible to obtain a cure without resorting to a manipulation of relaxion. The technical difficulties of treatment before the

second year are easily overcome since as reduction is not necessary there is no need for reproses in mobilization or the use of plaster of Para. To kep the legs widely separated. Putto use a sety kept in place even in the cases of children who are not dear in their habit.

In the first few months of life the separation is 9 slight that abduction of the limb at from 45 to 50 degrees 1 sufficient to bring the head opposite the acetabulum Maintenance of this position for odly a few months will suffice to obtain a permanent reduction

This treatment is suitable only for children about twelve months of age or jouinger. The apparatus is easily applied and can be adjusted to zaw degree of adduction. Two spints hinged at one end are strapped to the medial surfaces of the limbs. The desired degree of abduction is obstanced by moving the distill ends of the accessory arms attached to the main spints toward or away from the angle of the manufacture of the control of the cont

ANTHONY F SAVA M D

Levander G The Treatment of Fractures of the Shaft of the Fernur (Behandlung von Braechen des Oberschenkelschaftes) icts cherarg Scand 1030 ltv Supp zu

This report is based on 275 cases of fractures of the shalt of the femur The material includes the cases of 153 patients treated at the Mana Hoopital during the period from 1971 to 19 6 (13) of whom were followed up and studied roentgenologically) and 122 insurance cases. Two types of treatment were represented—operative treatment and continuous extension.

In both groups of cases the modence of dissability was fairly high after operative treatment Of the extension methods, direct extension proved to be decidedly preferable to indirect extension indirect extension is followed by a high modelnce of disability and at least in adults is apparently unable to correct shortening. The average shortening is about 3 cm. Occasionally indirect extension

must be abandoned because of pretation of the skin

which then renders the use of a different method difficult or impossible

The operative method is associated with the diagnet of infection which may not only prevent a good result but threaten life. Even in the absence of infection the various methods of fination disposed infection the various methods of fination disposed in the various methods of fination disposed in the properties of the

The results achieved with direct extension are decidedly better than those of other methods Direct extension meets all theoretical demands. It maintains the fragments in good apposition and allows the early institution of functional therapy. It may be considered as practically harmless and as applicable to all cases. It is therefore proposed as the normal method.

In the technique used in the Maria Hospital which has given extraordinarily good results ex

tenson is obtained by means of a clamp applied to the condyles of the femu. The thigh is suspended vertically and the leg placed horizontally in a harmoot, like suspension apparatus which is fast tened to an apparatus statched over the bed. Distorted fragments are brought into apposition by lateral attachments to the thigh. When it is mostile to the control of the

tion is done while the extension is maintained. The extension treatment is continued for six or seven weeks. At the end of that time—always in the cases of adults and sometimes in the cases of somege persons—the leg is placed in a plaster cast of an and massage theraps, are begun. If the direct extension for any reason (usually infection) must be interrupted the leg is encased in plaster with main tenance of the same position as under the extension therapy.

When it is impossible to obtain a satisfactory position of the fragments and the extension must be abandoned and when the fracture does not heal although the position is satisfactory, an operative method is used. Oblique and spiral fractures are fixed with screws and transverse fractures with autoplastic bone transplants according to the method of Albee.

Fractures in children up to six or seven years of seven years of the entire extremion and vertical suspension of the entire extremity. In the cases of older children the technique described is employed in the cases of children up to fifteen years of age the attempt is made to obtain a cure with shorten ing of from 1 to 1 5 cm.

Open fractures are treated by complete excision of the wound followed by irrigation with an anti-

septic solution and complete suture

In the cases of children up to fifteen years of age a fracture is followed in practically every unsance by uncreased longutudnal growth of the bone. The average minimal growth is 1 if on. Experimental investigations carried out by the author have shown that increased longutudnal growth may occur also in the non fractured large tubular bones of the same extremity. The cause of the more range growth of the fractured bone is the increase in the blood supply, which follows the fracture.

Cotton F J and Berg R Ankle Fractures A New Classification and a New Class \ Lngland J Med 1929 cc 753

The authors prefer to consider major andle in junes not as fractures but as dislocations complicated by fractures. They present the following classification of such fractures based primarily on the treatment (i) outward dislocation or lottes fracture) amend dislocation or reversed Potts fracture; and additional dislocation or Cottons fracture and (i) upward locations previously neglected cases.

In Group 1, the treatment is correction by in ward pressure and inversion, in Group 2 outward pressure and slight valgus and in Group a forward replacement with locking in dorsal flexion. Over

correction is impossible In each of these groups a plaster cast should be applied until union is solid-about six neels in Groups 1 and 2 and from seven to ten weeks in Group 3 Thereafter, an outer upright an inner I strap, and an elevated Thomas heel should be

applied in Group 1 a double upright in Gioup 2. and a double upright with a cross strap in front

above the ankle in Group 3 Exercises should be begun early to prevent muscle atrophy

Fractures of Group 4 are complete fractures of the lower end of the tibia with the fibula generally remaining intact. They are of a comminuted semiimpacted type and are occasionally complicated by fracture of the on calcus or astragalus with shattering of the lower end of the fibula and shortening of the shaft of from 14 to 15 in As a rule the joint capsule

is torn and the foot is in varies. Crepitation is generally absent

The treatment consists in correcting the upward dislocation and reshaping the comminuted tibu to form a good weight hearing surface. After the loot has been brought down it should be held by traction with a Sinclair skate a traction boot, or tongs in

serted into the os calcis In some cases it may be difficult to get enough tibial surface together for a walking surface In others the presence of outlying fragments may block motion The most common cause of difficulty is an over long fibula When the external malleolus impinges on the outer side of the os calcis it causes crippling pain. This condition can be corrected by resection of a portion of the external malicolus The use of a cast is usually a very unsatisfactory method

of dealing with this type of fracture Open operation for fixation should be done only

after careful consideration ROBERT V FUNTON VID

SURGERY OF THE BLOOD AND LYMPH SYSTEMS

BLOOD VESSELS

psen J Studies of Pathological Arteries (Re cherches sur les artères à l'état pathologique) Acta chirurt Scand 1929, lxv 341

In two cases of embolism of the femoral artery the author was able to determine the sate of the emboliss exactly by the aid of oscillometry. He states that in cases of artenoclerotic gangrase of the foot the skin of the affected foot and ker is observable, and will be demonstrated by oscillometry, the obstruction causing the gangrane is located in the region of the populstical artery.

In the cases of patients whose arteries had been tied several years previously measurements of the superficial temperature of the legs were found to be equal whereas the oscillometer gave scarcely any reading for the affected leg. After the patient had walked the temperature fell much more on the

affected side than on the normal side

The author discusses local arterioopasm. This is common in the feet where the superficial temperature may be several degrees lower than in other parts of the body. In acrosynosis arteriosclerous plays a very important part. Local arteriospasms can be explained also by the presence of cectarical tissue. In a case of this kind the author obtained a good effect by extraining the radial artery which was lodged in cicatrical tissue. Another ease of local arteriospasms in a direct effect upon ganglia. Dur the local darpy operations I pass in regularly finds the first the same side to be cold in spate of anna bessue.

In the cases of a number of war invalids at was demonstrated that the amputation stumps were often much colder than the corresponding parts on the sound side. In all amputation stumps the oscillonetric deflection was markedly reduced. In selection of the hands and fingers the temperature of the two bands was fairly equal during the summer the contract of the contr

The treatment of artenospassin is difficult whether condition is general or local Treatment with thyroidin has been tried in some cases but its effects were transfery. An important form of local treatment is Leriches arterial sympathectomy. The author has obtained uncertain results with this operation in artenospassin but good results in a person of the control of

The local artenospasm occurring in cases of reduction of the superficial temperature generally disappears during amenthesia and for several days afterward. This perhaps explains why a pernartenal sympathectomy carried out on one limb in a case of Raynaud's disease inhibits any artenospasm that may have been present in the other limbs.

In coordisson the author states that in the foot of a limb affected with deep phiebits he has noted a rise of temperature similar to that following peri arterial sympathectomy. This sign is very constant and of great interest from the point of view of differential diagnosis. It is not present in superficial inhibitists nor in cases of pelve phiebits.

Charbonnel and Masse Arteriography of the Limbs with Sodium Iodide Especially in Ar

teritis (Arténographie des membres avec l'iodure de sodium spécialement dans les atérites) Bull et mêm Soc not de chir 19 9 lv 735

The authors report three cases of limited gangrene of the toes in which arteriography of the lower limb was used

The first case was that of a woman sixty eight years of age who had albuminuria and diabetes and for three years had suffered from arteritis and troobse disturbances of the legs. At the time of exam mation there was a slightly infected gangrene of the two toes of the right foot Pulsation of the posterior tibial or dorsalis pedis arteries was not perceptible All tests indicated a fair circulation as far as the upper third of the leg Only arteriography indicated a circulation as far as the heel A Syme operation was performed, but as the edges of the flaps became gangrenous after four or five days and the general condition remained poor in spite of treatment with insulin, sodium citrate and diathermy the thigh nasamputated at the end of the eight days The pa tient died two days later

Lupudod injected into the amputated limb stopped, suddenly and completely at the middle that of it he leg. The atterograph had been erroneously interpreted. The nodide a very diffusible substance penetrated very far but the network of vessels it entered was not sufficient to insure motition of the insure especially in the amputation flaps. Lupudod which is less diffusible than the rodule: did not pass the middle third of the amputated kimb although it was injected with force. The leg should have been

amputated to the upper thard
Inthescond case that of a man sixty five years of
age who was free from syphilis, albuminuma and
chabetes examination showed a localized infected
gauginese of the right great to eand a small dry, block
plaque on the left httle toe. All tests including
arternography, indicated that the lessons were in the

peripheral arterioles. At the end of a month the gangrene was improved and remained focalized

The third case was that of a man aged saty nine years who had lacunar atterosclerous alluminum; alight diabetes and dry gangene of the toes of the right foot. Pulsation of the posterior tibal and dorsalis pedis atteries was imperceptible. In spate of negative oscillometry at the anile atterospaty showed the atteries to be permeable as far as the instep though not as permeable, as in the second case. They were quite thin and the collateral curulation was reduced. At the end of a month and a half of methical treatment the gangenes had slowly and the state of the state of the distribution of the instep. A very clear groove of elimination of the instep. A very clear groove of elimination of the instep. A very clear groove of elimination of the instep. A very clear groove of elimination of the instep. A very clear groove of elimination of the instep. A very clear groove of elimination at the upper third of the leg will be considered.

DUVAL who presented the report of Charbonnel and Masse to the Society, reviewed several eases from the literature lle stated that on the hasis of four cases Brooks concluded that arteriography gives information of aid in the determination of the site of the arterial obstruction. No evidence of an arterial leaion due to the injection was observed Singleton concluded from his experience in six cases that arteriography is dangerous in gangrene but in thrombo angutis obliterans in which the capillaries are more often normal and the collateral circulation is hetter the method should not be harmful Among the ten cases reviewed there were four more or less serious accidents Singleton attributes the accidents which he has observed to irritation of the vessely by the jodicle solution retained within them Charbonnel and Masse are of the same opinion In their tech nique they have abandoned vascular compression and make their injection into the uninterrupted cir culation As they have had no accident since the adoption of this method it appears that the solution itself in not harmful

Duval reported one case in which he used arteriog raphy that of a man who had his feet frozen in 1916 and developed ulcerations of the left foot in 1017 In 1026, a Chopart operation was performed In 1027 the patient presented himself with an niceration of the Chopart stump and severe circulators dis turbances of the right foot with ulceration of the right great toe Arteriography was used in the hope that a lower amputation could be done on the right leg As the second cubic centimeter of sodium to dide solution penetrated the artery the patient cried out with pain cramping occurred in the leg and the leg became as white as marble. The next day the vessels were dilated After two and a balf hours the injection was followed by signs of severe intoxi cation coughing attacks, sneezing a flow of tears and a taste of rodine in the mouth These symptoms lasted three hours

In four of six cases (two cases reported by Brooks and two by Charbonnel) the findings of artering raphy coincided with the clinical evolution of the lesion in one case (Brooks) they were similar to the findings at autiopsy on the leg, and in one case (Chathoanel) they showed complete dissertment with other findings. It notes of the liber case super-ed by Charbonnel and State liber case super-ed by Charbonnel and State liber case super-ed by Charbonnel and State liber of the greenen to be the findings of all antibodies examination and the clinical evolution of the paragree in one the findings of arterography series accord with the evolution of the gargene but in disagreement with the findings of arterography were erroneous and those of the clinical tests seriount according to the clinical results. Therefore artering raphy does not aeem to have given either conductive results or information superior to that vided by other methods of examination.

Page

Testa M. Vascular Glomerult or Arteriorenous Anastomosea and Tumora Arising from Them (I glomeruly vascolar) o anastomosu artero venose tiloro (umori). 4ma stal de chir. 1929 van 963

In any Mason described three small beam tumors beneath the nails which were of ablumb one smular to that of a recent hematons caused a smular to that of a recent hematons caused a read that the particular t

Testa gives a chinical and histological description of two small tumors of the hand with the same symptoma as those described by Maason The first which was found in a patient forty five years of age had appeared about five years previously on the palmar surface of the first phalanz of the middle finger of the left hand . The second which was pre sented by a patient of thirts two years had deseloped about eight years previously on the dor sum of the ulnar side of the right wrist Histo logical examination showed that the first was a perithelioma although it had developed at a site where there are generally anastomotic vascular glomeruli but the second had almost all of the morphological characteristics of the tumors de sembed by Masson On the basis of histological facts which he cites the author comes to the con clusion that Masson's tumors also were probably simple hypertrophied angiomy omata

AUDREY G MOSCEN M.D.

Gitcreest E L Traumatic Subclarian Arterio venous Ansurism Final Report Arch Surg 1929 x1x 375

Galerest reports a case of traumatic subclaums arterovenous aneutum on the right side of eight years duration. The clinical features were (t) as nonmous weeling of the right and of the eight shoulder arm and have mendous venous distattion, flow of blood though the control of the control of

blood pressure due to an increase in the blood volume caused by the fistula, (4) a characteristic thrill and bruz transmitted centrifugally (5) via increase in the oxygen content in the veins distal to the fistula and (6) dilatation of the proximal artery dumination of the distal artery and dilatation and thickning of the distal vein

antickening of the disast veils and the first operation of the clavide was reserted and the external and internal pipular subclavian and innominate vents and the first option of the subclavian artery were legated pround to the aneurismal varty. After this procedure the patient showed market missing the subclavian artery and the same control of the subclavian artery and the same control of the subclavian artery as a legated pust protund to it and the artillary and long thoracter arteries and vents were legated dutal to it. The patient recovered and has remained well for two seas.

In case of attenovenous ancursm it is impers the to light the accompaning ven simultane ously with the attery in cases of simple ancursm it is advasable to do so As spontaneous closure may occur and its infection is more likely, to occur when intervention is stiempted early few or no traumatic attenovenous aneursmas should be operated upon be fore from three to us months after the singity unless cardiovascular effects are conspicuous and progress we Careful hamostass and a deequate legation are

essential Silk rather than catgut should be used FRANK B BERRY M D

Barron VI E and Linenthal II Thrombo An girls Obliterans General Distribution of the Disease 1rch Surg 1929 x1x 735

The authors report a study of thirty four cases of thrombo anguise soliterans from which they conclude that the descase is of general distribution rather than as is commonly believed a condition involving the blood vessels of the extremities exclusively. The signs and symptoms are characteristic of the vessel involved. The authors report in detail a number of cases with symptoms of in volvement of the blood vessels of the extremities heart brain and abdomen at different periods, in which autopsis showed the involvement to be due to thrombo anguise soliterans.

Informs angulas domerans. In the most application of the disease they frequently found organized thrombis in different parts of vessel in one of their cases an organ arter, and a subactite lesson in the lower end of the vessel. From these observations and from the fact that the disease not infrequently exists for many verar with absence of pulsarion in the dorsalis pedia and posterior tibal arteries but with no signs of impairment of the circulation such as gangerine they conclude that the disease attacks the larger they conclude that the disease attacks the larger they conclude that the disease attacks the larger many conclude that the disease attacks the larger than the disease attacks and capil vessels first obliterating the arterioles and capil

laries in the later stages SAMUEL PERLOW M D

SURGICAL TECHNIQUE

OPERATIVE SURGERY AND TECHNIQUE, POSTOPERATIVE TREATMENT

Davis J S The Removal of Wide Scars and Large Disfigurements of the Skin by Gradual Partiat Excision with Closure Ann Surg 1929 xt 645

Gradual excision is especially suited to \ ray burns hemangiomata keloids tattoo marks and scars resulting from injury. It should not be at tempted for malignant growths Davis performs the operation under local or general anaethesia. In the first stage, an elliptical piece of tissue is removed and the edges of the defect are approximated within the growth itself After healing has taken place another elliptical segment is removed the edges of the defect being sutured as previously By this procedure a very wide scar can be converted into a linear scar the surrounding skin has time to become stretched between operations it is possible to remove a large disfigurement which could not be removed at one operation. Undermining of the edges about the excision is contra indicated as it produces more scar

The author includes in his article several photo graphs of patients which show remarkable results William J. Pickett. M.D.

ANTISEPTIC SURGERY TREATMENT OF WOUNDS AND INFECTIONS

seranger B A G and Drenth J B Bacterial Infection of Fresh Transmitt Wounds Bester and Atter Disinfection with 5 Per Cent The ture of Indian and an Explanation of Wound tendle Infection Inscher Unfaillswanden vor und land the Danielskup mit sport Jedonktur as Ver bindung mit der Erksterung von Wundhricknon und arepinchen Wonnerfeld). Ander Tydiete v Gen

The authors made a systematic study of 322 trau matic wounds to determine the effect of 5 per cent tincture of rodine on the course of healing and particularly on infectious inflammatron Before the wound was treated and after it had been cleansed and treated for two minutes by the application of s per cent tincture of iodine a platinum loopful of material was taken from its surface and transferred to sterile phy siological salt solution. The treatment of the wound after the use of sodme consisted in su ture and the application of moist autiseptic dress ings No Priessnitz dressing was used Equal quan tities of the material removed from the wound were plated on agar of different nutrient qualities and both aerobic and anacrobic cultures were made The cultures were examined microscopically after three days

The length of time between the accident cross the wound and the bacteriological study varied up to ten hours. One hundred and five of the rounds and been tracted with incture of ionine deschee before the bacteriological study was made. The results of the mestigation are included accord to the humber of colonis the type of the sound the time increasal between the accident and the time increasal between the accident and the causing the might be accessing the might be accessing the might be accessing the might be accessing the might be accessed to the control of the control of the might be accessed to the might be accessed to the might be accessed to the control of the control of the might be accessed to the control of the control of

The authors conclude from their findings that many fresh traumatic wounds are infected some of them with a large number of pathogeme bacteria Without treatment or with incorrect treatment the majority will become inflamed fin cases of traumatic wounds coming under treatment late and showing the first signs of an inflammatory in action numerous pathogenic bacteria can always be found Energetie cleansing and chemical antisepsis with 5 per cent tincture of iodine practically always is followed by aseptic healing. This treat ment results in a complete or almost complete asentic condition of the tissues. In many cases an smmediate bactericidal effect is noted. There is no direct relation between the time that has elap ed since the injury and the number of pathogenic bacteria found

In the cases reviewed the smallest tanhylococcu are the ones causing the most seers infamily and the type of tissue movibe dand no relation to the nature of the injury and the type of tissue movibe dand no relation to the names type of the batteria present ended to the state of the tissue movibe day to the tissue movibe day to the tissue of the tissu

Witson W C The Tannic Acid Treatment of Burns Special Report Series 141 Med Research Council Land 19 9

This report was made at the request of the Medical Research Council of London' in view of the important practical and theoretical considerations in volved. The preface says The conclusion must be that the tannic and method for the treatment of burns is one of the most important teent adance that have been made in modern theraped to

The author discusses in some detail the chincal course the pathology and the principles of the treatment of burns. He then reports 117 case of burn treated by the tannic atid method in the Roxi Edinburgh Hospital for Sick Children and the

Royal Infirmary at Edinburgh The general outline of his treatment follows that recommended by Davidson The patient is put to bed at once and the usual measures for shock are instituted. The burned area is cleaned immediately, under nitrous oxide anæsthesia if necessary A fresh 21/2 per cent solution of tannic acid is then sprayed over it every hour until the hrown coagulum appears No dress ings are applied, the area being exposed to the air under a cage In facial burns great care is taken to protect the eyes the external auditory canal and the nostrils from the tannic acid Tannic acid on the comea is especially to be avoided. The coagulum is allowed to remain until it neels readily (from eight to fourteen days). If infection occurs drainage is secured by removing the crust Under no con sideration are hot wet dressings used as moisture seems to release the toxin

Of the try burns og were due to scalding and az to fire All Dut 12 of the patterns were under ten years of age Eighteen were under one year There were 13 desths a mortality of 1111 per cent Among the patuests under ten years of age there was to be a supported to the transport of the transport of the transport cent reported by Fraser as occurring in a sense of goo cases of burns in children under ten years of age who were treated by other methods. Four of the deaths in the cases reviewed by Wilson were due to shock, 3 to acute toximas 3 to sepsis and 3 to causes not connected with the burn. Of 3g children causes not connected with the burn. Of 3g children to the case that the sum of 3g children to the case that the sum of 3g children to the sum of 3g children to

is favorable when less than 35 per cent of the body surface is burned and though grave, is not hope less when from 35 to 60 per cent of the body surface is burned. Burns of greater extent than 60 per cent of the body surface are rapidly fatal

Although the tannic acid treatment is carried out best in a bospital, it can be adapted to first aid and is much to be preferred to the use of carron oil and other greasy substances. The author gives in detail directions for the emergency first aid use of the tannic acid treatment in mines and factories.

MICHAEL L MASON M D

ANÆSTHESIA

Rapoport B Observations on Spinal Anæsthesia with a Report of 500 Cases Anes & Anal, 1929

In reviewing the literature on spinal anesthesis the author was supraised at the diverse ownions expressed as to its efficacy and safety. He has employed it in good cases without a death attributable to the anesthetic. There are no contra indications to its use except in the cases of morblund patients and cases of disease of the nervous system. Serious complications are rare. Vascular depression is best combated by the Trendelmung position. Caffein sodium benoates is also of value. Failures and complications can be eliminated by perfection of the placentines can be upon part of the additional contractions of the upon part of the additional contractions.

GEORGE R MC VILLER M D

PHYSICOCHEMICAL METHODS IN SURGERY

RADIUM

Regaud C Progress and Limitation in the Cura tive Treatment of Malignant Veoplasms by Radium Brit J Radiol 1929 11 462

The author briefly reviews the development of radium therapy the hopes it holds out and the

eventual limits of its efficiency

Local curretherapy is defined as the use of a tube of radium from which the radiations act on adjacent parts decreasing in intensity according to the square of the distance This is by far the most important form of curretherapy Ceneral curretherapy con sisting in the introduction of radio active bother into the blood stream has yielded little Radiation with the penetrating gamma rays (analogous to \ rays) which can pass through several centimeters of lead is made possible by filtering through metal sufficient ly to remove the beta rays Radon the gas removed from a solution of radium salt was placed first in radio active seeds of glass and later in gold or plati num and used to great advantage in the treatment of small cancers. Aside from the seeds and the beta rays employed in the treatment of certain super ficial skin cancers local curietherapy uses nothing except the penetrating gamma rays from small tubes of dense metal preferably indium platinum. At the Radium Institute of Laris such platinum needles with an active length of re mm are employed al most routinely. There are 3 series of these tubes In one series the wall thickness of platinum is o 5 mm , in another, 10 mm and in another 15 mm All tubes in the same series are identical. With these series and by means of aupporta applicators of every

shape dimension and power are prepared.
There are a main procedures in local curietheraps. -internal radiation interstitial radiation and external radiation. In joternal curretherapy radium tubes are introduced into natural cavities and passages of the body such as the mouth nose larynx cesophagus bladder, and uterus This treatment has not proved very successful in general but will prob ably always be used in cases of squamous cell cancer of the uterus Of a senes of 610 cases of cancer of the cervix treated at the Radium Institute of Paris in the period from 1919 to 1926 and representing aff degrees of extension of the lesion a clinical cure was obtained in 30 per cent and the incidence of five vear cure increased from 8 per ceot in 1919 to 32 per cent in 10 3 In 61 cases which were operable a cure was obtained in 60 per cent and the incidence of five year cure increased from 20 per cent to 8x per cent In 176 borderline cases the incidence of the year cure increased from 33 per cent to 43 per cent and in 373 inoperable cases it increased from 3 per cent to 13

per cent

It is in the interstitial curretherapy that the great est progress has been made. The Radium Institute of I ams employs platinum needles with a wall thick ness of o s mm but it has altered the technique from the use of a few foct and radiation of great in tensity to the use of numerous foci with radiation of weak intensity and increased dyration of the treat ment This method of radium puncture is recently for certain cancers of small size cutations or subcutaneous certain varieties of breast cancer and all varieties of cancers of the tongue. It gives good re sulta Of 144 cases of cancer of the tongue and floor of the mouth which were treated in the period from 1920 to 1926 it gave a cure in 23 per tent In an additional 20 per cent the local growth was eradi cated but the treatment failed because of cervical extensions Accordingly a cure of the local cancer was obtained in 43 per cent Eighty per cent of the cases were inoperable

Radium surgers is employed for lessons of such type or so located as to be incurable by other types of curnetherapy or the \tan xi In cases of carcinoma of the antrum which were treated by Hautant and Monod by radium surgery in the period from 1922 to 19 5 a cure was obtained in 38 per cent

In external curietherapy radio active substan es are maintained at a short distance from the skin by mechanical means. The various series of applicators are combined in strengths varying from 2 to 15 mgm of radium each according to the distance from the skin and the duration of the treatment Tao substances are employed for this purpose namely columbia paste and nidrose This procedure has resulted in great progress in the treatmer' of extensive and deep cancers of the skin hp mouth pharynx larynx breast and lymphatic glands Of cases of cancer of the lip which were treated in the penod from 1920 to 1926 a cure was obtained in 92 per cent of 62 which were operable in 7 per cent of 12 which were of the borderline type and in 14 per cent of 23 which were inoperable. When the depth of the lesion requires a skin distance greater than 8 cm the dose of radium exceeds several bundred milh grams Such amounts require lead protection around the radium for both the patient and the persons giv ing the treatment This form of radium therapi is Telecurietherapy has 2 called telecurretherapy main techniques-the use of numerous small foci and the use of a few large foci. On account of the expense not more than 4 or 3 gm of radium are em ployed The skin distance rarely exceeds 12 cm The use of greater distances would be ineffective

and extremely costly

The increase in our knowledge of the behavior of
radiated cancerous tissues has brought about great
progress in the radiation treatment of malignant

lesions The essential problem is the destruction of all fertile cancerous cells in the invaded area. Two methods are available to accomplish this purpose One is the destruction of all cells within the area, both normal and neoplastic. This method is per missible in the treatment of small superficial lesions, but is of little practical importance. The other method is the destruction of the cancer cells by cell dissection leaving as much as possible of the nor mal tissue undestroyed Such selective radiotherapy is possible only when the neoplastic cells are more tadiosensitive than the normal cells which must be preserved The selectivity of action is more nearly approached as the radiation used is more homo geneous and penetrating. This explains why the gamma rays are more selective than any \ rays known Gamma rays are as effective as 1 rays on the more sensitive cells but they spare more perfect ly the normal elements of the general tissues. In principle a cancer should be curable by selective radiotherapy if all of its fertile cells are markedly more radiosensitive than the normal cells of the general tissues and of the neighboring organs traversed by the rays. In certain cases radiotherapeu tic measures are relatively ponerless not so much because of the radioresistance of the neoplasm as because of the radiosensitiveness of the surrounding normal structures. In cases of cancer of the skin. cervix mouth lary ny and antrum it has been found possible by extending a single treatment over a

period of several days to obtain a much higher incidence of cine than is obtained when the same dosage is given in a shorter period and at the same time to preserve the integrity of normal tissue far more effectively. It has been shown that the arrest of the circulation of the blood to an organ increases the radioresistance of that organ. The frequently repeated and delayed doses of radiation are con demined on the basis of the development of a radio minumization. The single treatment administered in a sufficiently short time (a few weeks at the most) is essential for the cure of malignancy.

All techniques of procedure in attacking cancers have been tried Radium puncture should survive Radium surgers offers an interesting field for re search Internal curretheraps appears to have given the maximal success which it can attain. Apparently it will continue to be used only in the treatment of uterine cancer Supports of plastic materials are very convenient and seem susceptible only to per fection of detail Telecurretherapy offers great promise in the treatment of deep lesions but the scarcity and high cost of radium limit its progress The radiosensitiveness of normal and neoplastic tissues must be further studied. Always there will be the obstacle of too great local extension and gen eralization of malignant tumors. At best, radio theraps and surgery are only local methods of treat ment and are doomed to failure by generalization of the disease A JAMES LARKIN, M D

MISCELLANEOUS

CLINICAL ENTITIES—GENERAL PHYSIO-LOGICAL CONDITIONS

Seale E R The Endocrine Aspects of Scienoderma Report of a Case with Glandular Dysfunction South M J 1929, xxxx 885

The author reports a case of selenderma present up hand like and small multiple leasons and evidence of derangement of function of several glands of internal secretion. On three occasions the basil metabolism was found to be ~7, ~12 and ~50 Dystunction of the glands governing sexual development was also apparent. Except for low blood presure and the lack of response to adreabil there was no suggestion of suprarenal hypothesison. The retarded development scarce growth of harr low the standard development scarce growth of harr low the standard development scarce growth of harr low considerations are supported to the scarce of the scarce of

The author agrees with Hoffman that persons who develop scleroderma have an unstable sympathetic nervous system the result of an abnormal neuro endocrinological mechanism often evidenced as disfunction of one or more endocrine slands

W N ROWLEY, M D

Handley W S Lymph Stasis the Precursor of
Caneer Brit W J 1929 D 607

According to the theory of evolution every, cell of the higher animals a descended from a primitive one-celled organism with an irresistible appetite for food and multiplication. These are the appetites that dominate the cancer cell and cancer may be considered an attention that the considered an attention to the body to the state of their primitive one celled ancestors.

Warburg has recently shown that the cancer cell metabolism in which it behaves like an anaerode deriving most of sell metabolism in which it behaves like an anaerode deriving most of its energy from the hydrolysis of signs rate lactic and and relatively little from on distinct. Chomic criticals produce cancer but the anaerod region of the produce cancer but the anaerod region of the produce cancer but the anaerod region of lymphangitis which causes a lymphangitis of lymphangitis which causes a lymphan

Papillomata or papillar, hypertrophy very frequently precedes cancer of the breast, the colon and rectum produced experimentally Lupus crythe matosis is often followed by warty growths one more of which may become carcinomatous. The author has shown that hupus is escentially an obliter after tuberculous lymphangitis. In this disease

blocking of the lymphatic is the primary factor with chronic papillary hyperfrondy as its consequence

Papillary hypertrophy as a seguela of pure lymphatic obstruction apart from local infection is best seen in elephantiasis. In this condition choince it cers at times become malignant. The author cites a case in which, after radiant heat haths virulent multiple cortheliomata diveloped.

GEORGE A COLLETT MD

Lipachuetz B The Cell Structure of Tumors of Ituman Origin Especially Cancer of the Breast (Zur Kenntus der Zellstraktur menschlicher Geschwuchste imbesondere des Brustdrussehrebsei) Bien klim Wehnschr 1971 [5]

For a long time the author has been studying the specific structural changes occurring in the relix of timotos of snimal origin. In recent studes he has been able to demonstrate aimilar changes in timor cells of human origin which vary only slightly will the race and type of cell of the hoat. The remainded human origin to restrict the human origin to restrict the sound celled human origin to metal part of the rest and celled human origin.

In contrast to normal cells the cells of a round celled sarcoma of the skin showed a basophile par anuclear mass and a well stained distinct arch oplasm In the early stages of the formation of a nævocarcinoma the differences from normal cells were especially distinct. The basophile mass appear ing beside the nucleus is designated as the plastia In the breast carcino reaction of the cytoplasm mata atudied a somewhat modified plastin reaction was found. In tumors of human origin as in trans plantation tumors of animals this plastin reaction is independent of the type of cell of the organ involved and of the mesenchymal or ectodermal genesis of the tumor Allof the blastomata studied have shown the described cytological changes specific for blastoms a fact indicating that blastoma is to be considered a HANS ERRLICH (Z) cell disease sus generis

Begg A M and Cramer W Alleged Experimen tat Production of Malignant Tumors in the Fowl Lancet 10 o cervii 507

Begg and Canner pount out a source of error mike experimental production of malignant tumors of the fowl. It is well known that the type of tumor denge nated as 'Roos tumor Nor,' can be transmitted by the use of an extract of the tumor passed like the contract of the state of the tumor passed like the contract of the contract of the product of the p

resembled Rous tumor No 1 When the data were rechecked it was found that the mortar used for the extraction of the mouse tumor has been used sevenal hours previously for the extraction of a Rous tumor. It was evident therefore that some of the filterable spent still present in the montar had contaminated the mouse-tumor extract and given rise to the tumor in the chick. Mawrite, Electricistics M D

Mason R and Wells II G On the Occurrence of True Mixed Carcinomatous and Sarcomatous Tumors (Sarcocarcinoma) with the Report of a Mixed Carcinoma Chondrosarcoma of the Thyroid of a Dog J Concer Research 1929

The growth of caranoma stimulates prohletative activity of connective tissue to form the stromas for the epithelial structure. Frequently the volume of the fibrous tissue growth greatly exceeds that of the epithelial growth. While astromatous change is not common in and about caranomata true mixed acroms and caranoma are known to occur. The suthors report a mixed caranomacroma of the thyroid gland of a dog with cartilagnous and osteoid structures in the stroma and separate as well as mixed.

meastases of carenoma and sarcoma. This tumor seems to demonstrate conclusively that at least some of the mixed tumors of the thyroad are fully mixed sarcotaronantar rather these carenomata with pseudosarcomatous portions formed by altered epithelia cells. The fact that the dog had also two small benign growths in the manimary indicates that it was susceptible to the formation of both cartilagnous and epithelial tumors. The great size and malignant character of the thyroad tumor showed it to be primary. The two manimary fland tumors were very sotall well encapsulated and of benign structure. Mosais II Asairs M D

Oppel V Epinephrectomy (Die Epinephrekiomie)
Centralnyi med Z 1928 1 464

Oppel has proposed epinephrectomy for the treat ment of spontaneous gangrene He discusses the problem on the basis of 200 cases fle considers re moval of the adrenals as causal therapy in the management of spontaneous gangrene a condition he designates as suprarenal gangrepe As a rule he removes the left suprarenal because the right one is too near the vena cava He recommends the lumbar incision with or without opening of the pentoneal cavity Resection of the twelfth 13th makes the approach easier Attention is called to the fact that the eleventh rib may be mistaken for the twelfth if the latter is poorly developed and that such an error may lead to injury of the pleura

The author has performed 100 epinephrectomies for suprarenal arterious and his associates have per formed 40. Herzberg who has been skeptical regarding the practical results of the operation has collected 52 more. Damperoff has reported 3 Rubaschev 1 Sachv 3. Leriche 6, and fletts, 4

Accordingly, more than 200 epinephrectomies for hyperadrenalinæmia have been done In the 140 cases operated upon by the author and

his associates there were no fatalities from hypo adrenahuzemia, but in a case reported by Spasoku kocki death resulted because the right adrenal did

not function

The operation is difficult when the adricals are located near the vessels of the renal peticle. In a case of this kind the author was obliged to remove the kidney to stop the harmorrhage and the patient died of shock. Three of the author is patients died of postoperative sepsis. On the basis of his statistics Herzberg estimates the mortality of the operation as 4 or 15 per cent. Oppel's mortality was 7.2 per cent. In Oppel's last 80 epinephrectomies there were 5 deaths a mortality of 8 per cent.

Opped has found that epinephrectomy gives good reputed also in Raynaud's disease (10 cases) Herz berg states that the number of amputations which are necessary even after removal of the adrenals is too high Oppel believes that epinephrectomy often renders amputation unnecessary.

The permanent results of emnephrectomy have been investigated by Oppel over a period of eight years In 42 cases there were 18 recurrences and 24 cures. Among the 18 cases with recurrence there were a deaths. Eight of the patients with recur rence were under thirty five years of age ascribes the recurrence to hyperfunction of the remaining adrenal In the 24 cases in which a 44 c was obtained the period of observation ranged from one and a half to five years When a patient who has lost both lower extremities and is threatened with gangrene of the hands is relieved of the pain in the hands and feels well after epinephrectomy he is considered cured. Of 7 patients who lost an extremity 2 have been well for more than five years 3 for more than four years I for more than three years and I for more than a year and a half Of those who lost no extremity, 3 have been well for more than three years 6 for more than two years. and 5 for more than a year and a half Schage (Z)

DUCTLESS GLANDS

Rowe A W Studies of the Endocrine Glands
IN The Differential Diagnosis of Endocrine
Disorders Endocrinology 1929 xm 327

The author has compared the relative frequency of complications to 500 cases of endocrine conditions with the frequency of similar complications in 500 cases of non endocrine conditions. The findings

are summarized in the table

The farge number of cases of mental relardation in the endocrine group was due to the fact that such cases were referred for study only when varous stigmats auggested a possible fainabular background I romany anemia and ear disease occurred with abnormal irrequency in the non endocrine group. The number of non endocrine group.

TABLE I -PERCENTILE COMPLICATION OF PRIMARY FADOCRINE (1515)

Complication		Endocrane group						No.
Croup	Condition	Pitutary	Thyroid	Go d	Adrepal	Pancreas	Total	1
Inlects ns	Tubercul vs Atroph e thin tie Arth ties Lon ils on set Other feats feet sea	\$ 0 21 9	8 1 7 11 10 3	6 3 11 9 5	40 4 11 0 7	"; "; ",	7 90 1,4	5
Psyclo nes	Ne r ses I yeh nen ores I sych ises	9 5	6	#3 #3	"	7 0 7	10 8 9 0 3 5	1
Servous Jalem	Lesions of b a n and cord f-palepov Mental clus lats a Physical retard n n In a slovergr with Ch i a	17 16 3 1 2	11 4 3	2 0 0	30 0 0 7	7 0 0 0	1 8 1 2 3 4 1 0 0 2	10
\fet bol m	M 1 ute 14 to Thesaty Musc lise cous bene d'seasen	25	ri 3	6	?	100	14 6	11 2
Card was lar system	If set he in y (as is renal diverse Hypertens on	3 1 1 8	\$;	13 1	53 7	13	10 8 20 8	1 2 8 6
Bjood	Primary sammla Hemophil s	:	:	:	9	0 7	0 7	1
Tumors	Mal gnant Ren an Non Toxic goater	:	3	;	7	?	1 6 6 2 6	1
N scall neous a editions	Fyr Fir Allergy Castro-inection t o trust Infertulary Freemancy Uncomposited	3 5 3 3 30 5 9 4	8 8 6 7 29 4 11 6	4 4 3 5 6 20 20 3 12 4 8	700023000000000000000000000000000000000	7 0 0 17 40 0	3 4 6 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8	13 4 2 3 3 4 2 1 1 2 7

Bassd upon females slone †B sed upon number of pat enls m it ed

diseases of the ductless glands The small proportion of focal infections in the non-endocrine group is

somewhat misleading The high incidence of heart disease in the endo crine group was found not to depend upon the

thyroid factor as might be anticipated The nationts with endocrine disorders, especially

those with ovarian conditions, had had a large amount of abdominal surgery Endocrine disorder are reported more often in the cases of females than in those of males the ratio being 3 1 In general the age at which endocrine

disorders develop is somewhat earlier than that at which non endocrine diseases occur The number of cases in the adrenal and pancreas groups is too small to allow definite conclusions but the frequency of tuberculoss and Lidney diseases in the adrenal group and of syphilis and cataract in the

pancreas group seems significant The author has studied more than 4 000 cases but in many instances the data could not be tabulated satisfactorily because of the functional level of a single gland and also because of the varied relation

ships of composite glands. No attempt was made to determine specific causal relationships, but the findings seem to warrant the following conclusions

r The occurrence of most non endocrine compli cations in the endocrine group and the non-endo trine group in so nearly equal numbers indicates that a significant increase in the presence of a symptom or a positive response to a test in the endocrine group is probably due to the glandular factor

2 Certain non endocrine disease states seem to be associated selectively with individual endorn nopathies although usually represented in them all WILLIAM E SHACKLETON W.D.

SURGICAL PATHOLOGY AND DIAGNOSIS

Roffo A II An Indicator of the Death of Tassues Studied in Cultures of Tissues in Vitro (Sobre un indicador de la muerte de los tejidos estudiado en los cultivos de tejado in vitro) Rev med Lai

1st ro o 21v 1173 It is difficult to determine the absolute death of an

organism since even after the vital functions of the

body as a whole have stopped the tis ues continue their vital functions until autolysis brings about total disintegration of the protoplasm The autho has demonstrated survival and growth of tumor cells cultivated in vitro without the aid of conserving fluid He has found that living tissue gives rise to products which change the hydrogen ion concentration of the medium in which it is placed. In the presence of living tissue the medium becomes distinctly acid f om the absorption of carbonic acid and the production of amino uric, ketonic lactic and other and-

The experiments reported in this article were car ried out with the heart of a chicken embryo ten days old and a spindle celled mouse sarcoma. When a stain was added to the culture medium as an ind ca tor (phenolsulphonphthalem 1 1 000 of 1 1 500 does not affect he vitality of the tissue) it turned from red to yellow in proportion to the intensity of g on th of the tissue cultivated. When the experiments were repeated with dead tissue that had been boiled for five minutes the red color of the stain did not change AUDREY G MURGAN M D

EXPERIMENTAL SURGERY

Rous P and Gilding H P Studies of Tissue Maintenance I The Changes with Dimenished Blood Bulk J Evp. M 1929 J 189 Gilding II P Studies of Tissue Maintenance II The Service to the Liver and Digestive Tract After Hamorrhade J Erber W 1020 1 213

Rous and Gilbing used the spread through the living animal of various highly diffusible dyes as an indicator of the ability of the circulation to serve the tissues under various conditions. The method is direct and searching. It shows that blood service to the viscera is normally far more profuse than that to the skin and muscles After hamorrhages which greatly reduce the blood bulk service to the viscera is in general still well maintained even when the animal i in extremis. However great the compen satory contraction of the splanchnic vessels-and physiologists have long supposed it to he very great

-it certainly does not suffice to hinder blood service anywhere in the digestive tract. On the other hand the service to certain unessential abdominal organs (spleen omentum urinary bladder) is cut off in large part or wholly and in comparison with the

essential viscera the skin and mo t of the skeletal muscles of the bled animal are largely deprived of

The deficiency takes a curious form some regions being still fairly served by the blood while others rest to them are no longer well supplied. In the slan the areas served or not served are very arregular but are determined to some extent by local pressure factors Within the muscles the neplect is orderly in arrangement and is largely referable to compensa tory vasoconstruction Certain of the muscles those used in respiration and in swallowing furnish im portant exceptions to the general rule being excel lently served despite the senous general state. The red bone marrow of the depleted organism continues to be well served by the blood even though situated in limbs that are otherwise almost devoid of a circulation The pregnant uterus al o is excellently supplied despite the serious general state

The changes are such as would tend to conserve

the forces of the depleted organism and contribute to its recovery GILDING states on the basis of his experimental

work that the vascular re adjustments in compensa tion for a great reduction of blood bulk affect the service rendered by the blood to the gastro intestinal tract and liver far less than that to the skin and muscles Into the latter tissues India ink is carried almost not at all whereas in the capillaries of the bowel and liver it circulates in quantity Evidently vasoconstriction is much less effective in these vis cera Nowhere do they present a patchy ischæmia like that which is so wide spread in the peripheral tissues The blood service is maintained to the same ettent every where throughout the liver even when one of its two sources (hepatic arters or portal vein) is obstructed and the intrahepatic blood pressure is brought very low

A pronounced patchy ischemia of the stomach and large bowel can be induced by the intravenous spection into normal animals of sufficient epinephtin to cause the systemic blood pressure to mount to an abnormally high level Pitutrin used in the same way has a greater effect blood service to the organs mentioned may be completely abolished by means of tt In both instances however service to the small gut and liver is still excellently and evenly main tained JACOB M MORA M D

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International **Abstract of Surgery**

Supplementary to

Surgery, Gynecology and Obstetrics

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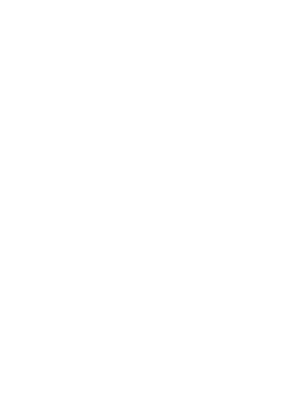
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EDITOR'S COMMENT

ELLETT'S paper on the future of obstetrical practice (p 339) emphasizes certain features

of a situation that has caused increasing con cern among thoughtful obstetricians and leaders of medical practice for a number of years Jellett states that in Holland, Lugland, Wales, Austra ha, and New Zealand the maternal mortality rate from sepsis is from four to six times greater in cases attended by practitioners than in those at tended by midwives. He attributes the high incidence of puerperal sepsis in patients under the care of general practitioners to a number of factors first of all, to haste unnecessary interference. and sepsis secondly, to lack of education sufficient to enable general practitioners to treat obstetrical complications successfully, thirdly, to inadequate antenatal care and failure to recognize abnormal conditions early in the course of pregnancy, and finally, to the lack of a suitable environment for the patient during and after labor with consequent constant potential danger of evogenous infection

In a broad sense, these elements of weakness constitute an indictment of our entire social system, and the problem of prevention of puerperal sepais and maternal motibulity has many aspects saide from its medical aspects. That medical men, however, have combatted it more success fully in certain parts of the world than in others is evidenced by the low maternal death rate in the Scandinavan countries. (Mosher J Med.

Cincinnati 1927, viii, 164)

Caldwell and Studdsford's report of the complications and results of breech deliveries during a five year period at the Sloane Hospital for Women (p. 334) and the discussion of their report by Burgess, Ehrenfest, De Lee, Matthews and others emphasize the high infant mortality asso ciated with this complication of pregnancy, the importance of its recognition early in the course of pregnancy and the increasing appreciation, first, of the value of external version, and, sec ondly, of casarean section in suitable cases. It is of particular interest, in connection with a study of the complications and results of breech deliv eries, that for a time the practice of routine inter ference during the second stage with the patient under deep anæsthesia was carried out by the authors, but because the mortality increased so

greatly the method was abandoned and conserva tive management again adopted

Gastroscopy as a routine procedure in the diag nosis of gastric lesions has not aroused such widespread interest nor attained the popularity in America that it has in European countries possibly because American medical men are un duly fearful of the difficulties associated with the passage of the gastroscope or because they have not had the opportunity of familiarizing them selves with its possibilities and the technique of its use Gutzeit, in a recent paper in the Erged nisse der inneren Mediain, discusses, on the basis of an extensive experience, the indications for gastroscony and the information that one may expect to secure by the use of this method. He has found it of greatest value in the recognition of gastritis of the inflammatory changes sur rounding an ulcer, of the postoperative changes in the gastric mucosa which are not often shown by \ ray examination-marked gastrius spasm in the new outlet ulcers at the site of anastomosss, or ulcers that have been overlooked, of hypertrophic gastritis, and of atrophic gastritis Because of the possibility of studying the inflam matory mucosal change about an ulcer he has found it of great value in determining the most sintable time for operation and the success of failure of medical management of an ulcer He states that in forty postoperative cases which were followed by poor results the cause was dis ease of the gastric mucosa which was constantly present and usually more severe than gastne dis ease developing spontaneously

Sneet's interesting discussion on the function of the gail blader (p at 6) in which he stift of climated anatonical and experimental evidence to show that the gail bladder is an organ of absorption and that material which passes into it through the cystic duct does not pass out again, you Haberer's discussion on the surgery of the bildery tract and his emphasis on the varying severity and characteristics of bilary tract discussion to the control of the

INTERNATIONAL ABSTRACT OF SURGERY

APRIL, 1930

ABSTRACTS OF CURRENT LITERATURE SURGERY OF THE HEAD AND NECK

EYE

Blakeslee G A Eye Manifestations in Practure of the Skull treh Ophih 1929 11 566

Six hundred and ten cases of skull fracture were reviewed with regard to eye signs. Eye signs occurred in 78 per cent. The cases with eye signs had a poorer prognosis than those without such signs

a boose prognosas than those without such signs. The eve signs included famorishage in the last and compactives paralysis of the critinate eye mustels of the compactive paralysis of the critinate eye mustels of the compactive paralysis of the critinate contents and such as the contents and fundate changes. by stagmas was infrequent and usually tempomy: hytation of the pupil sether dutated or contracted was an omnous sign. Unlateral distance and fustion of the pupil shaps occurred with spuderal homorrhage. So to make and fundated the content homorrhage for the machine the compact of the pupil state of the content is sufficient to the content of the pupil state of the content of the pupil state of the content of the co

Mellenry D D Practical Points in the Treat ment of Trachoma J tm V Ass 1929 xrm 1201

In the treatment used by the author in acute Gues of trachom the folkeles are rubbed off with the Enger covered with gauze saturated with either bone and powder or copper sulphate in Eyern to the Copper sulphate of Eyern could be supported by the Copper sulphate of the Eyern could be supported by the Copper sulphate of the Eyern could be supported by the Eyern could be supported

In chronic cases canthoplasty is often found becessiv Gritage expression bussage and tarsectomy are done as indicated. The author describes the technique of each of these procedures lie regards expression of the follocles in the carnucle as of extreme importance. To accomplish this he series the carundle with an iris forceps inserted through one ring of a Prince forceps. In this way

the caruncle can be pulled up and held firmly during expression with the ring forceps After the treatment, even patients free from symp

toms are to examined at regular intervals for a year or two Mcllenry states that by the methods described

Michenty states that by the methods described 99 per cent of cases can be cured SAMUEL A DURR M.D.

Ifolioway T B and Fry W E Asteroid fivalitis
Report of a Case with Microchemical and
Histological Observations Irch Ophih, 1929

A man sixty nine years of age presented acute glaucoma and asteroid hyalitis of the right eye Trephination was performed Lighteen days later the patient died of pheumonia

I athological examination of the e.g. one hour after death showed the ordinary changes of glaucoma and a homogeneous non cellular exudate beneath the chorord on hoth sides. The vitreous was clear except for white spheres which measured from o or to o so mm in diameter. These spheres were most funner and posterior parts of the vitreous and were arranged posterior parts of the vitreous and were arranged and posterior parts of the unus. They contained a carbonate calcium stearate or a palmitte or both and probably lipoids are combination.

Gradle H S and Meyer S J The Blind Spot

The description of the first method of earning the blind spot nas published by Manotte in 1608. Since then many others have demonstrated in 1608. Since then many others have demonstrated the population of the study of this spot. Grade repetution for the blind spot in ambityopic affections to Grade and Sterrum investigated its relations to glaucoma. Cantonnet its relation to the degree of the student of the posterior ethinocidity and effective its relations to posterior ethinocidity and effective its relation to posterior ethnocidity and the spot of the optic merve into the cytoball.

The vascular and avascular portions of the optic nerve which he free in the orbit are involved primarily in purulent inflammation of the orbit and secondarily by disease elsewher in the nerve. In the authors opinion, the portion in the canal is subject to disease from the situacis not because of its relation to the sinuses but because of the relationship of the soft tissues in and about the canal

The authors discuss the pathological significance of the blind spot the indications for its examination, its size and location and the methods of measuring

VIRGIL WESCOTT 31 D

Coverdale H V The Cause and Results of Ohstruction of the Central Artery of the Retina A Study of Eleven Cases Bril J Ophib 1929 xm 529

Coverdale reviews the literature and reports eleven cases of obstruction of the central retinal artery. The majority of the cases are consulered to be due

The majority of the cases are consistered to be due to embolism but especially in older persons the cause may be endarteritis and thrombosis. Embolid do not levid to early thrombosis and may pass farther along a vessel after a time either with or without Derminent retinal damage.

The reduction of the size of the affected artenes is due to interference with the blood supply of the arterial wall resulting in desenceation or to accommodation of the arterial wall to the reduction in the blood column. Retinal pallor is caused by ordernal assing for from one to two weeks and followed by necro is

In complete obstruction the visual field is main tuned only around the nerve head. Central scoto mata occur very early on account of macular anomia.

The macular region is the most vulnerable but if the duration of the obstruction is short or there is normal circulation nearby some central vision may return

Spasm of the artery may be primary or secondary to disease of the arterial walls

SAMUEL A DURR MD

Benedict W L Retinoblastoma in Homologous Eyes of Identical Twins Arch Ophih 1929 u 345

The occurrence of neuroblastoma in homologous yes of tunns has not been reported previously so far as the author could learn by a search of the htera time. In start, tunn gris were brought to the Vaso Cinne one of whom had a neuroblastoma in the left see and the other a similar tunnor in both eyes. There were several reasons for considering these grist adentical or engotice tunner tunnor in the left dentical or engotice that it is not to the seed of the such that the stunnor is the seed of the seed of the such that the stunnor is the seed of the seed of the such that the stunnor is the seed of the sold the seed of the seed

together with as much of the optic nerve as could be obtained Death occurred a year later

In the case of the other child the left eve was end cleated and radium was used on the right eve until it could be determined whether the growth was ex tending toward the disk. The operation was per formed on the same day as that on the twin sister The optic nerve, which was removed with the elabe appeared to be normal Subsequently the child entered the public school and kept near the head of her class until vision began to fail five years later because of the development of a posterior cortical cataract Six years after the operation the anterior part of the lens was clear but on the posterior capsufe there was a dense layer of granular substance which was more dense at the center. The large ves sels of the fundus could be seen but the details of the disk were obscured. In the inferior temporal quadrant there was an irregular area 2 by a disk diameters which gave a white reflex. This area was not elevated and although not clearly focused was apparently on the same level as the fundus large vessels were seen in that region and no other lesions were present. Tran illumination was then good The tumor had been destrayed by the radium The mereasing cloudiness of the len wa character istic of complicated cataract seen in mes with exten sive choroidal destruction and probably was not due to the direct action of the radium

EAR

Martin C. L. Roentgenological Studies of the Mastoid in Infants. Am J. Roenig nol. 1929 XIII 431

The author befieves that in suspected mastodillum infants roenigen examination is of value III states that after the age of art months arith having the above of the mastod can be demonstrated below the tegomen lympan and behind the read author, meature This cavity varies in a standy the until worth may measure at all thought and above definite cell structure. A lithough the standy the unit worth may measure at lithough the standy of the standy of

The presence of pathological conditions in the mastoid can usually be detected in good rocations of the mast of th

Martin employ a the Law rechnique, sang a assite paced Gan use table and rootstroorgraphing both and the continuous continuous the same day and the feet and a long elender cone is emplored toward the feet and a long elender cone is emplored. The baby is beld farmly, by three assistants and one rightly second exposures are made with a 3 m. partin day and the day and so ma passing through the table duning

an expiratory cry Marrown R. Waltt M.D.

NOSE AND SINUSES

Steposis of the Nasopharynx Arch Otolaryszof 1020, 7 480

Cicatricial stenosis of the nasopharyny is rare. In the past, the condition has been difficult to treat as evidenced by the great variety of procedures advocated for its relief Many of the proposed operations are of little practical value. A few when properly carried out will restore the nasopharyngeal lumen satisfactorily Most of the reports in the literature give little chinical information especially as regards end results

Eighteen cases of nasopharyngeal steposis have heen observed in the Mayo Clinic The causes in these cases and the number of cases in each etiologic cal group were as follows tonsillectomy and ade neidectoms four tonsillectomy alone two heredi tary syphilis three, acquired syphilis two, an indeterminate inflammators process two rhinoscleroma two diphtheria one caustic (sulphunc seid) one

and a congenital abnormality, one The symptoms of nasophary ngeal stenosis depend on the degree of obstruction. Often the nations ac commodates himself to breathing through a very small opening and may present practically no symp toms, even in the presence of marked contraction With complete or almost complete atresia the symptoms are primarily those of nasal obstruction The lack of ventilation in the nose together with blocked drainage, produces changes in the nasal mucous membrane which may be followed by in fection of the accessory sinuses or deafness sense of smed is interfered with and if the condition comes on early in life, developmental changes in the facies and the contour of the nasopharynx and possibly of the nasal fossæ may result The voice loses its normal resonance and irritation of the pharynx and lower respiratory passages may be caused by the continuous breathing through the

The most obvious method of treatment and with out doubt the one resorted to most commonly in the past is incision of the cicatricial diaphragm and sub-sequent dilatation. Yet almost invariably, this procedure fails The opening made usually contracts to such a marked extent that it becomes useless for respiration when the dilatation is stopped and often when it is continued However in cases of congenital stenosis this method of treatment has proved en tirely successful Incision with subsequent cauteri zation of the raw surfaces with the galvanic cautery or some type of chemical cautery is not a rational procedure After reestablishment of the communi cation between the oral phary nx and nasopharynx the wearing of a prosthetic appliance held in place by dental bands has been tried. Isaacs reported a case so treated but did not mention the end result In the Mayo Clinic such an appliance was used in one case to hold a skin graft in place after the scarred at tachment of the soft palate had been dissected from the posterior pharyngeal wall. The graft did not

take, and the stenosis recurred Diathermy has been used in the treatment of nasopharyngeal stenosis with some success, probably due to the fact that the scar following surgical diathermy is often less dense and has less tendency to contract than the scar fol lowing most cutting operations or inflammatory con ditions This has been noted in the treatment for

keloids about the neck In some of the numerous plastic operations which have been devised for the relief of nasopharyngeal stenosis flaps of mucous membrane from the adia cent checks soft palate and pharyngeal wall are utilized In others large skin flaps are introduced through a pharyngotomy opening Curtis reported a case of dense recatnetal stricture of the pharynx due to syphilis which was treated satisfactorily by the introduction of a skin flap through a suprahy old phary agotomy opening Mackenty recently de scribed an operation for the relief of ricatricial stenosis of the nasophary px that he has used suc cessfully in several cases His procedure consists in turning up two flaps of mucous membrane from the posterior wall of the pharyny one on either side of the stenosed pharyngeal opening Although the tissue constituting the flaps is taken from the phary n geal wall the base of each flap is situated at and formed by the posterior border of the soft palate The flaps are doubled over onto the denuded supe nor or posterior surface of the soft palate, and the operation is completed by suturing them in place

I erhaps the simplest and in most cases the most uniformly successful procedure is that presented by Nichols Nichols concluded that the reason the opening made by incision of the scarred membrane invariably contracts was that healing always starts at the apiecs of this wound and progresses toward the median line Drawing an analogy from cases of syndactylism treated by the insertion of a seton at the base of the web until cicatrization takes place and then incision to this point he inserted a silk suture through the small nasopharyngeal opening well into the lateral extent of the region of scarring tied this suture and left it in place until a cicatrized tract de reloped and then freed the posterior border of the soft palate from its attachment to the pharyn geal wall out to this point. In 1896, hefore the American Larvingological Association he reported a group of thirteen cases treated successfully by this method

In the last six cases of cicatricial stenosis of the nasopharyny seen in the Mayo Chaic essentially the same procedure as that described by Nichols has been employed with uniform success. The only van ation consisted in clamping a small lead weight over the ends of the suture and allowing the suture to cut through of itself which usually required from one to two weeks. The suture and weight are almost in variably swallowed The possibility of aspiration has been considered but thus far no difficulty of this kind has been experienced. After the suture cuts through it is replaced by another taking a wider lateral bate Subsequent dilatation with rubber

tipped Kelly forceps has been employed in most cases regardless of the primary method of treat ment In a few cases a soft rubber tube with a self retaining cuff at either end was inserted for short periods with marked benefit

NECK

Mineate II F Two Cases of Riedel a Chronic Thuroidltis Beit J Surg 1929 xvn 264

The author reports the cases of two women forty six and thirty four years of age respectively. The chief complaint was dyspnoxa. In both cases there was considerable enlargement of the thy rold but in one case the gland was smooth and firm, and in the other smooth and evstic. The symptoms had been present for five and six years

The microscopic findings are described in detail and shown by photomicrographs. The chief findings were well defined lymph follicles and grant cells of a foreign body type the latter embedded in degen

erating acini

Wingate considers the condition to be a non tuberculous granuloma Jonn II Wootsey M D

Webster B Studies in the Reactions of Simple Golter to Indine Bull Johns Hopkins Hosp Balt 1929 xly 215

In experiments on rabbits with simple hyperplastic thyroid glands the author found that potassium nodide injected intraperitonially in quantities of 5 a 5, and i as mgm produced changes in the quantity of thyroid hormone elaborated as indicated by changes in heat production. These changes appeared to vary directly within certain limits with the amount of available sodine as did the extent of the glandular involution as determined by biopsy and histological study The relationship apparently held true until involution was nearly complete

Youmans J B The Incidence of Golter Among Adults in Nashville Tennessee South if J 2029 XXII 966

This article is based on the results of the exami nation of coo patients coming to the out patient de partment of the University Hospital Nashville Tennessee All of these patients had been born and had lived in or near Nashville. Their ages ranged from fifteen to eighty two years Goiter was found in 85 the incidence of this condition being therefore 17 per cent The incidence of goiter was 4 times higher in women than in men and was slightly lower among the colored patients than among the white patients. In women it was highest in the fifth dec ade of life, and in men in the second and third

The author suggests that while the occurrence of gotter in the region of Nashville may be due in part to primary todine deficiency, improper diet and poor hygienic conditions may also be factors

FRANK B BERRY M D

Burch F E The Exophthalmos of Graves Dis ease Minnesola Med 1929 mi 668

Burch reviews the various eye signs associated with Graves disease and reports a case with definite exophthalmos in which all other signs of Graves disease were lacking Tour years later exophthalmos was still present but there was never any sign of thy road intoxication

Following a review of various theores relative to the mechanism of exophthalmos in Graves disease Burch reports a case of malignant exophthalmos appearing two years after thyroidectomy for hyper thyroidism in which both eyes were eventually enucleated FARTY I GREENE M D.

Lahey F II End Results in Thyrocardiacs 4st Surg 1020 XC 750

The surgical management of patients with thy roid disease has shown striking development in the last decade. There is almost universal acceptance of surgery as the treatment of toxic gotter. The author states that at his clinic they have been par ticularly interested in the cases of toric goiter show ing cardiac failure and have come to designate such cases as 'thyrocardiacs

As a result of his experience with thyroid disease Lakey believes that thyroidism in itself does not cause heart disease and that there is no heart state that can be designated as a true thyroid heart. This belief is strengthened by the fact that young persons with intense hyperthyroidism over a considerable period of time present no signs of cardiac decom pensation Cases in which auricular fibrillation and signs of heart failure have developed fall into the group of thyrocardiacs Auncular fibrillation and cardiac decompensation associated with hyper thyroidism occur most commonly during and after middle age and rurely in young persons This fact that suggests that cardiac failure in case of hyper

thy oldism is due to previous injury of the heart The diagnosis of hyperthy roidism associated with and resulting in heart failure is sometimes difficult as the more severe and urgent the symptoms of cardiac failure the more obscure are the symptoms of thyroidism The symptoms of thyroidism in elderly persons are usually not those of the activa tion so typical in 3 oung persons but those of apathy There are two distinct types of reaction in hyper thyroidism first that of activation with the clas sical picture of the disease and second, apathy which is represented by the more sluggish quiescent response to into neation. Failure to appreciate the unobtrusive dangers of this apathy of varying de gree in thyroidism has not infrequently been one of the causes of mortality in thyroid surgery

At the Labey chinic, 138 patients belonging to this group have been operated upon Five died in the hospital making the operative mortality 36 per cent With the exception of 4 cases every thyrocardiac coming into the clinic was operated upon and practically all were operated upon under general anasthesia induced with ethylene. This in

dicates that there are essentially no thyrocardiacs with too marked decompensation to withstand subtotal thyroidectoms

Of not patients traced and living more than three and a half years after the operation 95 have been restored to the full function which they had before the onset of the hyperthyroidism, 4 are partially incapacitated and only 2 are completely incapacitated. By U B SITE M D

Richardson E P Aub J C and Bauer W Para thyrodectomy in Osteomalacia Ann Surg 1929 xc 130

The extent to which disturbances of endocrine function may underlie generalized disease has long been a matter of interest. The framework of the hones is not a static structure, but one in which active metabolism is taking place according to disuse or activity or in response to demands made upon it through variations in the inorganic salt metabolism. The relationship of osteomalacia to repeated pregnancies and lactation and to an almor mal diet is well known Bone atrophy may occur in response to increased calcium and phosphotus me tabolism in thytotoxicosis Decalcineation of bone may be brought about by the long administration of parathyroid extract Hoffheinz collected from the literature forty four cases in which parathyroid enlargement usually of the nature of hyperplasia was found at autopsy Among these cases skeletal disease was found in twenty seven osteitis fibrosa in seventeen ostcomalacia in eight, and rickets in two The authors report a case of hyperparathytoidism

The authors report a case of hyperparathytoidism referred to them by DuBois for further metabolic studies. The diffuse character of the change in the bones suggested osteomalacia although cystic cavities similar to those of osteitis fibrosa were present

The administration of a potent parally roid extract causes a use in the serum calcium a rise in the serum calcium a rise in the exerction of calcium in the urine a fall in the serum phosphorus and a rise in the excretion of phosphorus and a rise in the value of the serum phosphorus and a rise in the screen of phosphorus and a rise in the urine a fall in the urine of the serum of

With deficiency of the parathyroid glands the reverse results—a fall in the serum cilcium a fall in the excretion of calcium in the unne, and a rise in the serum phosphorus and a fall in the excretion of phosphorus in the unne.

The changes in the calcium and phosphorus me tabolism observed in the case reported were approx mately equivalent to those found in normal persons tectiving too units of Collip's parathyroid extract ner day.

The conclusion was drawn that the patient was suffering from hyperparathyroidism and that the osteomalacia was secondary to the associated abnormal loss of calcum

At a first operation the right lobe of the thyroid was exposed freed and turned inward and the infe nor parathyrind gland removed On section, the latter was found to he normal. At a second opera tion another parathyroid gland was removed

After a period of two years the patient stated that he felt very well was able to get about without difficulty and had heen working for ten months Roentgenograms taken for comparison with pre vious plates showed a marked increase in calcium in the hones.

In the bones
The authors state that there is very little evidence
that the removal of the two parathytoid glands had
anything to do with the result. They emphasize
the importance of a diet high in calcium and phos
phorus especially the latter, when it is apparent
that there is a drain of calcium from the body.

R V B SHIER M D

Horne J Cancer of the local Cords Difficulties in Diagnosis and Fallacies in Statistics Proc Roy Soc Med Lond 1929 Exil 1547

Home says that of all diseases of the laryar, car commo of the vocal cords is diagnosed as present when it is absent more frequently than any other It is diagnosed by elimination. Tuberculous is ruled out first then syphilis and being tumor Sections for microscopic examination must be cut at a right augle to the cord and deeply as otherwise errors are frequent. Ease, I Gagers, M D

SURGERY OF THE NERVOUS SYSTEM

BRAIN AND ITS COVERINGS, CRANIAL NERVES

Pfingst A O and Spurling R G Intracranial
Aneurisms Their Rôle in the Production of
Ocular Palsies Arch Ophih 1929 u 3gr

Ocular palsies are frequent in cases of intracramal aneurism as the arteries at the base to which the motor nerves of the eye are in close proximity, are those most often involved. There is seldom much clinical evidence of intracramal aneurism unless there is more or less hemorrhage.

The authors report two cases in each of which there was a two-year history of recurrent headaches with diplopia and piosis and fically an apoplectiform attack

In both examination revealed monocular palsy, ploss aparillections and nigotity of the neck, and in one case hemisnopsis. In one case the spiral fluid was bloody and under increased pressure. In the other it was clear but \(\) ray examination revealed, just to the right of the posterior edge of the pitulary fossa, a calcified orea which was believed to be a lime deposit in either an ancurium or a small harmor hagic area. No other neurological signs were present.

Both of the patients are still afive

Entr H Horex MD

Bialock A and Bradburn II B Trauma to the Central Nervous System Its Effect on the Cardiac Output and Blood Pressure An Expert mental Study 1rch Surg 1929 213 225

The authors carned out three series of experiments on does to study expectively the effect of trauma on the crebrum cervical cord and thoracte cord. At definite stages in the operations determinations were made of the pulse rate temperature arterial oxygen, venous oxygen maintain and minimal blood pressure oxygen consumption, and output of the heatt.

In contrast to the observations in shock produced by hamorhage in which the cardiac output falls tremendously before the mean blood pressure falls tremendously before the mean blood pressure falls it was found that after traums there was no definite fall in the cardiac output without a simultaneous fall in the blood pressure. The authors conclude that probably for this reason a fall in the blood pressure is not as sensor so affect when procedures on the central nervous system as it is during or after other types of operations or after brownings. They be heve that their findings emphasize the faithing of attempting to designate by the word abock. Or any other single term the varying conditions which result later traums and hamorhage. The More M.D.

KNUT II HOUCK M D

Balado M and Carrillo R Decerebrate Rigidity from a Cyst of the Pineal Gland (Reguler decerebrada por quiste de epífisis) Arch organ de neurol 1020 15, 167

The case reported was that of a boy twelve years The illness had begun two years previously with progressive loss of vision which had finally terminated in complete blindness. For ten months the patient experienced difficulty in walking having a tendency to fall to the right For four months he had been unable to walk at all and lor twenty six days at the beginning of the latter period he had been somnolent. Also during the latter period be had attacks of convulsions and conjugate deviation of the head and eyes to the right. He had lost a great deal of weight. His mind and memory were better than usual for boys of his age. During the last few days he had suffered from beadache and comiting He presented rigidity of such a nature that when his arms and legs were placed in a given position they remained there for as long as a quarter of an hour Passive movements were relatively not mal except for slight rigidity that had to be over come to began the movement

Operation revealed a cystic tumor originating in the pineal gland. After the operation the temperature and pulse rate increased progressively and

death occurred on the tnentieth day

As the ngeldy was bilateral and the only bilateral lessons found involved the hypothalmac and the red and black nucles, the ngeldy must have been due to pressure on these centers. The cyst was exerning the growth and was laned by the cells of a puzzl tumor. The spentictly of the lower lambs was to lessons of the myelin fibers at the foot of the track of the central peducules. Attacks of rusus nocturals about mentioned in the history were doubtless due to destruction of the right corpus stratum.

AUDREY G MORGEN MD

Wakeley C. P. G. and Allen I. M. Secondary Hydrocephalus as a Factor in the Dagnosis and Localization of Intracranial Tumors with Its Investigation and Treatment. Best J. Sur. 1202 X24 278

The authors discuss the influence of secondary hydrocephalus on the diagnosis and localization of intraccanal futurors, the means whereby the presence of hydrocephalus as a complication and the exist of the tumor may be determined and the influence of hydrocephalus upon the choice of treatment.

The mechanisms suggested to explain the development of hydrocephalus in the course of intracranial

I Direct mechanical obstruction of the circulation of the cerebrospinal fluid due to localization of the

tumor in such a position that it directly impinges upon the channels through which the fluid normally circulates

2 Pressure upon the great vein of Galen, either directly or indirectly, and consequent increased production of cerebrospinal fluid by the choroid plants.

piecus
3 Distortion of the brain stem by lateral displace
ment and torsion and secondary obstruction to the
circulation of the cerebrospinal fluid at its most
vulnerable point in the aqueduct of Sylvius hy pres
sure of the hindbrain against the unyielding edge of
the tentonium cerebell

4 Obstruction of the circulation of the cerebro spinal fluid near the foramen magnum

In cases of secondary hydrocephalus developing indirectly, the order in which the symptoms and signs appear is of paramount importance. True

localizing signs are noted first if the part affected is not a silent area

The chief symptoms of secondary hydrocephalus are essentially those which are usually regarded as the general symptoms of a cerebral tumor. They are primarily the symptoms of increased intracranial tension and may be due to conditions other than hydrocephalus. They are headache vertigo vom iting eye disturbances including papillordema mental symptoms a subnormal temperature, deaf ness and tinnitus reduced muscle power tone and reflexes in the absence of involvement of the motor paths occasional tremors incontinence of urine or faces and the various false localizing signs, the most important of which are cerebellar signs evidence of lesions in the frontal lobes changes in the visual fields minor signs of involvement of the pyramidal tracts and signs of pituitary disfunction

The differential diagnosis of secondary hydroceph alus includes renal disease severe anzima lead poisoning diabetes mellitus the cerebral form of disseminated sclerosis transverse myelitis with applications and conditions which produce in creased intracranial pressure such as massive timor growth oxdema of the brain and seneral errulatory

changes

In discussing secondary hydrocephalus as a factor in localization the authors point out that all local images ymptoms which develop after the appearance of the general symptoms of increased untracranual pressure must be regarded with suspicion and that they may be used for localizing; the lesson only if they are clear and unmistakable evidences of a local lesson

The investigation of a case in which secondary hydrocephalus may be present is carried out by careful and detailed clinical examination of the nervous system puncture methods including lumbar puncture casternal puncture and \ray examination including ven traulography.

Apart from the information obtained by ventuc ular estimation the examination of a patient suffer ing from secondary hydrocephalus by puncture

methods usually produces evidence of a negative

In the \text{ ray examination skull changes, cal cafeations pincel shift, and displacement of the falt cerebin are considered. The authors discuss the technique of ventruclography, the interpretation of ventruclograms and the complications of the procedure and their treatment in great detail. They emphasize that ventruclography should be complicated that the complication of the procedure and the treatment of the procedure of the procedure of the catalogue alongous and to lordize the lesion and that in this procedure ventricular puncture is to be preferred to spinal puncture.

Observations at operation are useful in confirming

a diagnosis of secondary, hydrocephalus
The authors conclude that the treatment of
secondary, hydrocephalus should be instituted as
early as is compatible with a thorough study of the
case. It should provide for the relief of pressure
above the tenforum even when the local teston is
the symptoms of a subtentional lesson are present
the symptoms of a subtentional lesson are present
this result is best achieved by the operation for

mobilization of the tentorium

Seven cases with false localizing signs which made
the diagnosis of the site of the lesion doubtful are
reported in considerable detail with autopsy findings

rable detail with autopsy finding DAVID J IMPASTATO M D

Wakeley C P G A Case of Fibrosarcoma of the Cervical Meninges Brit J Surg 1929 xvn 329

The case reported was that of a man twenty eight years of age whose symptoms had begun two years before he was seen by the author Examination revealed loss of sensibility to pain and temperature in the left half of her trunk below the second intercess and year throughout the left leg and in the inner half space throughout the left leg and in the inner half made the second in the left half of the second in the left half of the small mustes of the right hand of the small muscles of the right hand

Lammectomy revealed an encapsulated tumor of the cervical meanings (intradural) occupying the right posterolateral aspect of the cervicodorsal cord at the tevel of the lower three cervical and upper two dorsal vertebra: The tumor was removed On microscopic examination it was found to be a fibresactoma showing zeros of hyabic degeneration

Two days after the operation the sensory changes had disappeared Five years later sensibility and muscular development were normal and equal on both sides DAYID J IMPASTATO M D

SPINAL CORD AND ITS COVERINGS

Babtschin I The Technical Errors and Compile cations Occurring in the Performance of Chordotomy (Urber die hei der Ausfuhrung der Chordotomy condennen etchnischen Iehler und Kempikationel) Beir Rin Chir, 1939 civit 72:

Chordotomy division of the central sensory nerve fibers in the region of the spinal cord where the

anterolateral bundles of Gower intersect is done for the relief of pain of various types and origins. As the thermosensory fibers run in the same fasciculus, the division of the tract of Gover is followed simul taneously by a loss of sensibility to temperature as well as to pain on the opposite side below the site of the chordotomy Tactile sense and the different types of muscular sense are not disturbed. By means of chordotomy large areas, even half of the body, may be an esthetized

The following untoward results may occur when the chordotomy is not performed properly

r Paralysis of the sound extremity with cessa tion of the pain in the diseased extremity. This occurs when the pyramidal tracts dorsal to the Gower nerve tract are cut simultaneously. In four cases the author noted a transient spastic paralysis of the sound extremity similar to Brown Sequard paralysis and in three cases an isolated Babinski reaction

2 Recurrence of the pain on the diseased side due to insufficient division of the sensory spin-il cord

Recurrence of the pain on the diseased side and the development of a spastic paralysis on the other side due to too great extension of the incision dor sally so that only a part of the sensory fibers of Gower a bundle and a part of the motor fibers of the

py ramidal tract were cut

Complications of short duration are (1) ring formed midling pain which develops at the level of the chordotomy on the corresponding or opposite side and ceases after from one to three weeks, (2) urinary retention lasting for from one to two weeks and (3) intestinal paralysis which after bilateral or repeated chordotomies may persist for from two to fire days

In describing the technique the anthor states that the patient should lie on the diseased side. The sertebral arches must be completely removed to their points of insertion. In unstateral chordotomy it is sufficient to remove from two to two and a half arches but in bilateral chordotomy no fewer than three must be removed in order that the two incisions will be made at different levels in different segments. When the pain is localized below the diaphragm the chordotomy should be carried out at the level of the fourth and fifth thoracic segments, which correspond to the third and fourth thoracic vertebrae When the pain is higher up the meision must be made correspondingly higher and at a point two or three segments above the upper limit of distribution of the pain. The first and second thoracic segments must be avoided as otherwise through in jury of the cilio pinal center the Horner syndrome will appear and there may be a reflex effect on the The fourth cervical segment should be avoided as it is the center of the phrenic nerve. The dural sac must be opened without injury of the arachnoid

This exposure provides a good view of the cord and nerve roots and the firmness of the denticulate

bgament prevents the formation of postoperative adhesions between the spinal cord and the dura The arachnoid should be divided bluntly with a Kocher sound between the anterior and postenor spinal nerve roots In this manner the lateral col umn will be exposed. If the arachnoid is divided in the midline, the cut edges form longitudinal folds at the lateral surfaces and may simulate the denticulate ligament and even the anterior spinal nerve roots Injury of the delicate spinal cord vessels must be avoided as the least hæmorrhage discolors the tis sues and makes orientation difficult. The cord should be turned oo degrees. This is usually done by traction on the denticulate ligament which is grasped outside the arachnoid and divided immediately at the dura If the denticulate ligament tears because of insufficient development or if the cord is only slightly movable the pia mater may be grasped superficially with fine ophthalmological needles This can be done without injury of the pyramidal tract only in the region of Gower's tract. Traction on the posterior roots must be avoided as it will cause severe neuralgia. If it is unavoidable the cor responding root should be divided proumally to the site of the injury. In extreme cases the delicate anterior root may be used to turn the spinal cord but it is ant to tear

Most important is the accurate determination of the limits of the incision and the technique by which it should be made. Special care is necessary to determine the posterior limit which runs immediately along the paramidal tract. In this determination the surgeon should keep to the midline between the sites of insertion of the posterior and anterior to is in the cord. The denticulate ligament should he used only as a general guide. The anterior border usually russ along the line of exit of the anterior roots about 3 mm from the posterior border. If the an eror root is adherent to the cord it is difficult to find and must be traced upward from its ite of exit from the dural sac to the cord Sometimes it can he recog nized from the accompanying fine blood vessel which runs obliquely along the lateral surface of the cord and shows the direction of the root from in front above backward and downward Displacement of the anterior limit of the 10 1sion about 1 mm ventrally is of no importance but posteriorly such a displacement may lead to incomplete division of the sensory tracts and recurrence. The anterior limit of the chordotomy must reach the site of insertion of the anterior spinal nerve roots

The setting of the limits and the technique of chordotomy are easiest at the level of the sites of exit of the anterior and posterior roots from the spinsi cord II when the cord is replaced the cut surface especially its posterior limit is not visible the incision has been properly made If even a small edge is visible the pyramidal tract has been injured

The depth of the incision varies between 25 and 3 5 mm The analgesia depends not upon the level but upon the depth of the chordotomy The lateral column may be divided from without inward or

from rothm outward. The author uses a chordotome with a blade 3 mm longs of that he can divide the column from within outward. He meets the chord orione its fall leight into the posterior borde of the incision and brings it out at the anterior root, the entire mass of the column being threely divided with the peripheral fibers which he next to the par matter As gnot complete division of the column is the deep separation and moderate gaping of the wound edges along the entire cut surface. All coarse sawing and pulling movements must be avoided as a puncture escape of blood may lead to ordem and necrosis.

After the cord has been turned and the area of incision has been determined the chordotomy can not be delayed too long as it is not easy to hold the desired place by traction on the delicate denticulate ligament for any length of time and the operative field is soiled by the trickling of blood or spinal fluid The extent of the incision must be determined with special care in cases of stable benign diseases in which pain is often the only symptom. The largest musion is indicated in cases of malignant tumor in which a bilateral chordotomy is often indicated if a spread of the disease to the other side is expected to occur soon. In such cases injury to the pyramidal tract is of secondary importance as most of the pa tients are confined to bed. The greatest care and conservatism are necessary in cases of painful amou tation stumps and in the cases of paralytics who can still move about The correct extent of the incision cannot always be determined the first time but if necessary the chordotomy may be repeated at a higher or lower level Chordotomy should be per formed only by surgeons who are experienced in operating on the spinal cord Enten Henrel (Z)

Oppel W. A. Experiences with the Poussepp Operative Treatment of Syringomyella (Lifabr ungen mit der operativen Behandlung der Syringomyelie nach Poussepp) Arch J klis Chir. 1929 clv 416

The changes in syringomyelia consist in a proble ration of gluomatous masses in the gray substance of the spinal cord or its central canal. The gliomatous masses undergo cystic degeneration. Especially the cervical portion of the spinal cord is affected.

Poussepp has called attention to the fact that the central canal of the spinal cord becomes dilated as the result of the collection of cerebrospinal fluid and that this fluid exerts pressure on the spinal cord from within thereby producing some of the symp toms of syringomyelia Poussepp proposed opening the central canal and draining the fluid. He per formed a laminectomy at the level of the sixth and seventh cervical and the first thoracic vertebre, split the dura and opened the central canal from hehmd through a small vertical incision about 4 mm lateral to the midline. After the canal had been emptied the dura was firmly sutured and the mus cles and skin were closed tightly. The author reports seven operations of this type performed on six patients with no mortality

The syndromes of syringomy elia may be divided into three groups. (1) weakness and subsequent atrophy of the muscles of the upper extremities due to molvement of the gray substance of the spinal cord especially the anterior horns, (2) disturbances of pain and temperature sensibility due to involve ment of the posterior horns or interruption of the most conduction paths for pain and temperature sense anterior deturbances due to involvement of the posterior deturbances due to involvement of the sympathetic creters of the spinal cord (fateral horns). Not rarely these symptoms are especially marked in one of the upper extremities

The one sidedness of the chineal symptoms determines the treatment. The central canal should be opened from the side of the most pronounced changes as the chineap control of the most pronounced changes as the must be assumed that the central canal is chalted for a considerable distance. Avere theless this canal should never be opened in the lower portion of the cord but always in the cervical portion. The result of the operation depends first on the time of the intervention. The spand cord must not have been damaged so much by the pressure that it cannot recover

Poussepp first does an exploratory puncture and then opens and probes the central canal, but the author never probes and rarely does an exploratory puncture. As the posterior bundles of the cord are usually left intact by the disease the canal should be opened outside of the posterior bundle and the

pyramidal tracts

The symptoms of syringomyelia are pre eminently those of an affection of the anterior portion of the spinal cord The cord is first compressed anteriorly The chaical symptoms are predominantly unilateral This fact cannot always be explained by the forma tion of gliomatous tumors as there may be one sidedness without such tumors. Hypothetically, it may be explained by variations in the spinal cord The mass of the anterolateral portion of the cord may be smaller or larger and may be further to the night or the left side This explains why patients in whom the mass of the anterolateral portion of the cord is smaller on the right side suffer first from pressure in the right central cavity and those in whom the mass of the anterolateral portion of the cord is smaller on the left side suffer first from pres sure in the left central cavity when the central canal becomes dilated

The author heleves that the spinal cord cand should be opened from the side of the greatest doe struction the greatest compression and the greatest protrusion of the cord. As opening of the card antenoity through the antenoi commission of the cord and the cord and

antero external basal bundles and the anterpor horn and open the canal immediately anterior to the denticulate ligament. The line of incision therefore corresponds to that of the maximal disturbances and the site of greatest involvement. The technique of fielding the anterolateral bundle is the same as in chordotomy, but the incision must be vertical in

order that injury to the gray matter will be minimal. In two of the author's cases the wound separated after removal of the sutures probably because of a trophic disturbance of the dura. Therefore the sit turns should be left in longer. A second complication observed by the author was a hematoma in the muscle layer and a collection of fluid, perhaps cere brospinal fluid, which trackled through the sutures of the dura. In one case Oppel noted disturbances the dura. In one case Oppel noted disturbances the dura. In one case Oppel noted disturbances the contract of the suture of the durant in the case in the contract of the suture of the practice of

tracts during the turning of the spinal cord at the denticulate ligament in the opening of the central canal through the antero-external approach may produce spastic phenomena below the site of open

Of the six patients operated upon by the subone showed no improvement. The spania cod most therefore have been partially destroyed. In one case improvement was uncertain because of psychodefects. In another case sensation was improved but dautorhances of muscaliar function in the right upper extremity appeared as a result of technique to the contract of the contract of the contract excellent.

In conclusion the author states that a find consoregarding the method of opening the central cand is still impossible but by the use of the typical teninque of Pousserp and the anterolateral route are externed; severe and incurable discase has become amentable to operative treatment and certification of results can be achieved in cases not too far advance! Fairty Hisrary Fairty Fairty Hisrary Fairty F

SURGERY OF THE CHEST

CHEST WALL AND BREAST

Bloodgood J C Chronic Gystic Mastitis of the Diffuse Non Encapsulated Gystic Adenoma tous Type Inn Surg 1929 xc 886

The condition discussed by Bloodgood has been known as Reclus disease "Schimmelbusch's discase" diffuse papillary cystadenoma and cobbistone breast. "Die 1096 it was believed to be associated with cancer in at least 30 per cent of the cases Bloodgood is now of the opinion that it is \$8000ated with cancer only incidentally and is not

a preamentous lesson. Its cause is not known. In a small percentage of cases there is a discharge from the nupple. Intermittent retraction of the nup ple is practically diagnostic but occurs in less than to per cent of the cases. On pulpation a shotty condition of the breast is noted in addition to in creased firmness of the tissue. The edge of the hierar is smooth and sharply defined not unlike the sharp edge of the liver. When the breast is russed away from the chest wall it curves and feels on pulpation like a succer with a thickness dege. The condition may be more advanced in one breast than in the other. One breast may be samply shotty without a effentive edge and not yet succer like, "while the

other breast may have reached the saucer stage. The pathological process first appears in the upper and outer quadrant of both breasts. It always in volves more than a quadrant and encroaches first more on the upper and inner quadrant than on the loner and outer quadrant. The lower and inner guadrant seems to be the last to become involved Exenover a fully developed some there is no attophy of the subcutaneous fat or dimpling of the skin expt. When there are signs of inflammation of the skin. As a rule the mpple is free but there may be onegental contraction of one or both napples or Tarely, internattent retraction. Unalsteral retraction that one present in less than to one of the cancer type has been present in less than

3 per cent of the case.

Under the term chronic cystic mastitis may be trouped two distinct conditions. In one a large stoughed two distinct conditions. In one a large stoughed two distinct conditions. In one a large appearance while in the other there are minute stopped that the stopped stought stoug

Other chronic lessons of the breast noted during a study of diffuse chronic cystic mastitis were trau matic mastitis the caked breast of the progenic mastitis of pregnancy or lactation tuberculous mass titis, metastatic mastitis occurring after infections

the diffuse comedo adenocarcinoma, and diffuse car cinoma of the acute type, which is morphologically the most malienant type

In conclusion Bloodgood emphasizes that chronic custic mastitis of the diffuse non encapsulated cystic adenomatous type is not a precancerous lesion any more than the lactating breast, but may present microscopic pictures that are difficult to differen trate from those of cancer He states that as today more and more women are coming for examination immediately after the first symptoms are noted a greater number of breasts with chronic existic mas titis of this and other types are being sacrificed. He is confident that if surgeons and pathologists would give more attention to the study of chronic cystic mastitis fewer women would be mutilated. In order to give all women who may have a cancerous lumo in the breast at least a 70 per cent chance of cure we must hrme them all under observation within a month of the time that the condition is first noted In probably 70 per cent of the cases operation can be decided against by palpation alone. Of the 30 per cent in which the breast must be explored be nignancy of the lesion can he recognized in one half or more hy gross inspection and examination of MANUEL E LICHTENSTEIN M D frozen sections

TRACHEA, LUNGS, AND PLEURA

Helising C Cases of Thoracoplasty from the Osteråsen Sanatorium During the Period from 1919 to 1928 (Faelle von Thorakoplastik aus den Sanatonium O terusen in den Jahren 1919-1918) 4ta med Scand to 9 1 tv 521.

The author reviews forty cases in which thoraco plasty was done with spenal consideration of the indications for the operation and the results. The suggests were Key Perman, Nystrom and Hage strom. Key does a subperiosteal resoction of the ribs whereas hystrom removes the periostear this whereas hystrom removes the periostear the other continuous competent periodica de substitute the particular pleasures and the periosteum being thereby almost completely removed.

The indications for thoracoplasty are almost the same as those for pneumothorar except that thoraco plasty is usually to be considered only when pneumothorax cannot scheve the desired reset because of adhesions. The condition produced by pneumothorax is reparable that is the lung can regain its function partially should it be necessary to stop the treatment incause of an unfavorable effect on the normal lung hexagory traders the lung permanently func

Operation should be performed only in unilateral cases in which the process in spite of sanatorium

treatment, continues to spread or does not recede 'Unilateral cases' are not only cases in which the better side is pathologico anatomically normal but also cases in which there are no thougal signs of disease on the other side or disease known to have been present on the other side is regarded as cured

The most important changes in the worse lung is contraction evidenced by flattening and diminished mobility of the thorax and displacement of the trachea Roentgenographically, contraction is revealed by narrowing of the interspaces between the ribs displacement and dilatation of the trachea, displacement of the mediastinum with the heart. and high position of the diaphragm. Contraction is considered the sign of a good reaction It shows that healing by the formation of connective tissue is taking place. This healing process already begun is favored by thoracoplasty. Therefore the ideal cases. for thoracoplasty are those showing more or less contraction on the worse side. Of the forty cases reviewed by the author thirty showed contraction

As regards changes in the more normal lung the cases may be divided into five groups (1) those with neither physical nor roentgenological changes in the more healthy lung (eleven cases in the series reviewed) (2) those showing roentgenological changes at the bilus but no definite tuberculous foci in the parenchyma (four cases in the series reviewed) (3) tho e with roentgenological changes but no physical symptoms (three cases in the series reviewed) (4) those with physical but no roent genological changes (none in the series reviewed) and (s) those with roent genological as well as physical changes (twenty two cases in the series reviewed)

The deaths in the cases reviewed occurred in the neute cases with a duration of from nine months to one year and ten months

The author believes that in general patients more than forty five years of nee should not be operated upon

In the cases reviewed the sputum varied con siderably in amount and contained bacilli in all but

As far as possible the operation was performed in an afebrile period

When the patient did not gain weight in spite of nutritious food the results were poor A recurrence of tuberculosis in the lung on the

side operated upon developed in two cases Apical cavities did not collapse in spite of repeated

posterior and anterior thoracoplasties. This was explained by changes in the chest wall and especially in the costal cartuages in the form of more or less marked calcification the size of the cavities and the character of their walls, the relation of the cavity to the ribs (it is much more difficult to collapse a cavity which to adherent to the chest wall than a cavity that is surrounded by elastic lung tissue) the maccosible position of the apex, the difficulty of removing the first rib, and interference by the clavicle

The author concludes that thoracoplasty is of most value in cases of unilateral chronic tuber

culosis in which the general condition is good and there is a tendency toward contraction. The better lung must be healthy or any tuberculous process within it must be at a complete standstill as proved by a long period of observation. The operation must be done during an afebrile period. In cases with large apical cavities thoracoplasty, even in cluding phrenic exercis has not given favorable LOUIS NEUWELT MD

Archibald E The Classification of Operative Risks in Respect of the Operation of Thoraco plasty for I ulmonary Tuberculous and the Results of That Operation Conadian M Ass J 1020 XXI 502

With respect to the risk of treatment by thorsco plasty Archibald classifies cases of pulmonary tuber

culosis into three group, as follows

I Favorable cases These are cases of chrome fibroid tuberculosis which is predominantly uni lateral usually with cavities no larger than a pigeon s egg and without any sign of activity in the other lung The patients are ndults in good general condition with a normal temperature and pulse rate but with positive sputum. The ray shows disseminated lesions in one lung or confined to the upper third of one lung On account of the fibrosis the lung is contracted the traches mediatinum and heart are pulled to the affected side and the diaphragm may be raised. The other lung is rarely clear but the lessons within it are minimal and fibrotic Sanatorium eare has reached the limit of its usefulness but the patient is prevented from re turning to active life by the positive sputum and the almost positive as urance that active life would

cause a relapse 2 Doubtful cases In the cases in this group there is more extensive infiltration of the more di eased lung and the cavities are multiple or large other lung is under suspicion, and the general con dition is not good. There are occasional periods of slight rise in the temperature and pulse rate and the patient has lost a little weight and strength The \ ray The sputum is markedly positive shows larger cavities more infection and more destruction in the less involved lung but never thelesa there are evidences of reasonably good resist ance in the form of scar contraction in the more diseased fung The prognosis without operation is poor

3 Unfavorable cases In this group the lesion is denmitely progressive Cavitation is extensive often involving both lobes In the less involved lung signs of more recent tuherculous infiltrations may be seen. The patient is usually febrile, and the general condition is poor The prognosts is extremely unfavorable

The author reports the results in maety cases

operated upon more than a year ago Of twenty four patients who were regarded as

favorable ra Ls 66 6 per cent are prac ically cured x6 per cent show marked improvement, and 4 per cent show moderate improvement. Three died but only one death was due to the operation

Of forty five patien's who were regarded as doubtful risks 38 per cent are practically cured and about 14 per cent show marked improvement hine died Three (66 per cent) died as the result

of the operation
Of twenty one patients who were regarded as un
favorable risks not one has been cured and only
three show marked improvement. Of fourteen who
deed eight (38 per cent) died as the result of the
operation. Archibald explains the performance af
the operation in this unfavorable group by the fact
that it offered the only possible chance for relief
the operation of the only possible chance for relief
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Cases of pulmonary tubreulosis comphetated by emptyem are divided by Archabild into three groups (1) those in which the pleural effusion secondarily (1) those in which it is a thick green his fluid and (3) those with a mixed infection. In the first group simple thoracoplasty if indicated may overcome the effusion. In the second because of the thickness of the pleura thoracoplasty must be much more extensive than usual. In the third some sort of open dranager must be done.

or four stages rather than in the usual two stages'

RALPH B BETTMAN M D

Schuster N II The Etiology and Pathology of Primary Lung Tumors J 1 ath & Bacteriol, 19) xxxii 199

The author studied sixty, two cases of lung tumor to determine the importance of occupation infection and irritation in the etiology. No relation of the neoplasm to occupation could be established. The infections mentioned in the recent and remote histories miculed tuberculosis syphibis influents pleursy, and chronic cough with bronchitis. The irritations recorded were associated with the inflations recorded were associated with the inflations recorded were associated with the inflation of dust coal sales after and irritating balation of dust coal sales after and irritating

Forty six of the patients were males. The tumor occurred in the right lung in thirty one cases and in the left lung in twenty three. In five cases there was hilateral involvement.

Fire of the tumors were probably of thyme origin. Two of these were tumphosarcomata one was a small round celled sarcoma one a large round celled sarcoma and one a tumor of undetermined type. There were three pulmonary sarcomata—large tound celled tumor in a grif twenty-one years old a pundle celled tumor in a grif twenty-one years old a small round celled tumor in a man forty two was a small round celled tumor in a man forty two data small round celled tumor in a man forty two data small round celled tumor in a man forty two data small round celled tumor in a man forty two data small round celled tumor in a man forty two data small round celled tumor in a man forty two data small round celled tumor in a man forty two data small round celled tumor in a profit of the profit of

nomatous mass, (c) a massive tumor in the medias tumin (3) secondary deposits in tissues other than the mediastinal glands among which were commonly the cervical glands, the liver, the suprarenal glands, the krain and the hones, and (d) gain cells or multinucleated cell masses like syncytium General carcin maioss did not develop

J D WILLERS, M D

Welfer C V Entdifferentiation in Primary Car cinema of the Bronchi and Lungs J Cancer Research 19 9 XIII 218

This article is a histological analysis of fourteen cases in primary carcinoma of the lungs and bronchi the clinical descriptions of twelve of which have been published previously. The view is held that all types of carcinoma of the lung can take origin from bronchial structure; and that the various forms of these tumors are related to one another as a progressive series with an ascending line of differentiation of parent cells and a descending line of varying degree of entadifferentiation.

An ingenious scheme has been devised to simplify the classification of the types described. On a diagram represented by the letter I the most highly differentiated columnar celled papillary mucin forming adenocarcinomata are placed at the upper extremity of the left hand limb There are two of this type Lower down on the limb is placed an adenocarcinoma with smaller spherical or polyhedral cells and gland like spaces but no papillary structure Next is one with a tendency to become scirrhous and with absence of mucin. The fifth is a medullary adenocarcinoma with polyhedral lining cells in one or two layers and a coarse stroma In the sixth the predominant type is a medullary neoplasm re sembling a non-cornifying squamous celled car The seventh which ends this series at the lower end of the left hand inclined limb of the diagram is a scirrhous type of neoplasm with slender columns and cords of cells running through a dense by aline stroma

On the right hand limb of the \(\) are placed four tumors which are fraully of the squamous celled type. Begnaning whose with the most differentiated there is a typical comfuring nedulary squamous celled carendoms with abundant keratohyaline for elected carendoms with abundant keratohyaline for descending sock are practically fine to the descending sock are practically more than the perceeding one but show less coradication. The has me in the left lumb and has a corresponding resultance of the control of the descending sock of the corresponding resultance of the control of the contro

On the stem of the 1 are placed the three remaining tumors. These are too insufficiently differentiated to show whether the parent cells are gland celled or squamous celled in type. They are made up of small round cells with little cytoplasm and contain no trace of cormication on the one hand nor of

glandular architecture on the other. There is marked resemblance in them to small round celled sarcomata.

Thus this sense of carenomats of the lung begans with an undifferentiated type which becomes progressively more differentiated and finally diverged into two different types, ending in the typical squamous celled and the columnar celled timors in this series the undifferentiated cell carriamous time to widely disseminated mediatases while the more fully differentiated columnar celled types fall behind in this respect. The squamous celled twice storage deficiency and the statement of the squamous celled twice storage deficiency and the statement of the squamous celled twice storage deficiency and the statement of the squamous celled twice storage deficiency and the statement of the squamous celled twice storage deficiency and the statement of the squamous celled twice storage deficiency and the statement of the squamous celled twice storage deficiency and the squamous celled twice the squamo

There are eighteen photomicrographs to elucidate the classification T D WHEN- M D

HEART AND PERICARDIUM

Graham E. A. Decompression of the Heart 4nn Sure to 0 xc 817

Tollowing a review of the literature Graham reports two cases of decompression of the heart

When the heart is greatly enlarged two kinds of serious compressive effects may result. Those of one type are exerted on the heart itself and those of the other type on other intrathoracce structures. Graham discusses the heart which is so large that it is embarrassed by confinement within the cheet will

The first case reported was that of a bop fourteen years of age who vance his fifth year following acute articular rheumatism had been obliged to spend most of his life on a con alsecent farm and in a bos pital because of frequent attacks of cridica decom pensistion. On November 5, 1058 under novecus anyesthesis the author removed the bourth and fifth and pershondrum from the left border of the sternum to the anterior saillary line. After this operation despite the decompensation the patient stated that his symptoms were much more easily endured than before

The second case was that of a five year old pil with cardiad edocumpentation following several it tacks of rheumatic fever. Eximation revealed mittal stemosis and reamilification and remaind stemosis and remainding on the subficiency and myoardia, with a marked precordial bulge and very evident heaving of the shole precordium. On Januari 1999 under nitrous ovide anisotheria the subfort moved the fourth fifth, and suth rhos and cottal cartilates from the stemum to the anterior attliary lime. The operation was followed by institute under the pressure and the nodal first him.

Neither of these cases presented the ordinary in dications for the Brauer cardiolysis such as positive evidence of tethering of the heart by adhesions Accordingly the beneficial results seem to have been

due entirely to the decompression

The author emphasizes that caution is necessary in evaluating the results of the operation and admits that becau e of the brief time that has clapsed since the intersention it may be unwise to draw any con clusions whatever except that certain strikin im mediate effects were produced. The operation itself seems to be associated with practically no danger but there are probably only a few cases in which it is justified Apparently these would be cases of children with dennite precordial bulging and a large beart Perhaps when more is learned regarding the effects of pressure on the heart other cases in which the indications mentioned are not present may be regarded as suitable for decompression On the other hand the operation may be found to be of no special value

A note at the end of the article states that both patients died April 23 1929 the day after the paper was read before the Philadelphia Academ of Surgery CARL R STEPPE MD

SURGERY OF THE ABDOMEN

ABDOMINAL WALL AND PERITONEUM

Abt I A The Diagnosis of Peritonitis in Infancy and Childhood J Michigan State M Sec, 1929 xxviii 674

The causes of peritonitis and the modes of re sponse of the organism to the infection differ in

children and adults

Acute diffuse peritonitis is probably the most painful of all diseases. When the peritoneum is diffusely inflamed all movement is painful and there are other symptoms of peritoneal irritation such as tenderness and rigidity of the abdominal mus cles, vomiting constipation in older children and diarrhoes in young infants Perforation of an ab dominal viscus is followed by immediate very severe pain. The pain is increased by cough, hic cough vomiting and breathing The abdominal wall becomes as rigid as a board and the breathing thorsese instead of abdominal

The temperature rises but in young infants the

fluctuation may be slight The reaction of the circulatory apparatus and the pulse is of the utmost importance. The pulse is rapid small soft, and quite irregular. Its rapidity is out of proportion to the height of the temperature

In acute peritonitis, vomiting is one of the early symptoms Persistent emesis indicates that the

peritoneal process is extending

Singultus is due to a variety of causes. In associa tion with other symptoms it is characteristic of peritoneal inflammation and when it persists it indicates diffuse involvement of the perstoneum

The most important varieties of peritonitis oc curring in the young are fetal peritonitis and the peritonitis of infancy peritonitis with appendicitis and pneumococcic gonococcic streptococcic in fluenzal migratory and tuberculous peritonitis

Fetal peritonitis may be due to a prenatal infection which is transmitted by the blood stream of the mother There are also on record a few instances of

fetal peratonitis of syphilitic origin

Ballantyne reports cases of plastic peritonitis in newborn infants. A possibly important factor in the causation of fetal peritonitis is a malformation or developmental anomaly of the ahdominal viscera Congenital malformation stricture or stenosis of the intestine may lead to peritonitis through perfor ation

In children as in adults appendicitis is probably the most frequent cause of peritoneal inflammation In the early stages of this condition there is a tend ency of the perstoneum to wall off the infective process by the formation of plastic adhesions be tween the cocum ileum omentum and anterior parietes but in the child a rapid spread of the in

fection and early involvement of a wide area are favored by the large amount of lymphoid tissue in the appendix the thinness of the wall of the appen dix, and the incomplete development of the omen tum, especially in the early months of life

Appendicates is more insidious in childhood than in adult life. Acute disestive disturbance with fever is so common in infancy and may occur with such severe toxic symptoms that alimentary intoxication

is more often suggested

Pneumococcic peritonitis may be classed among the most frequently fatal diseases of childhood It occurs more often in female children than in male children Otitis media may be a primary focus. It has been assumed that in the female the invasion occurs through the genital tract reaching the per stoneal cavity by the way of the fallopian tube

The disease presents itself in the form of a local ized circumscribed abscess or an acute diffuse

peritonitis

Regarding its usual course, the author states that without any marked prodromes the child falls ill with a high fever abdominal pain vomiting and sometimes diarrhoea. The pulse is rapid and difficult to count. When examined early, the abdomen is usually not found to be distended although it is not easily compressed. The muscular rigidity, which is a common sign in other intra abdominal processes. as not present The diffuse type of pneumococcic peritonitis is

not uncommon. It tends to run a severe and in most matanees a rapidly fatal course. It begins acutely with violent abdominal pain, high fever, severe diarrhora and vomiting. The temperature may reach roy degrees F but in some cases may fall

below normal

Gonorrhead peritonitis is seldom encountered in Tuberculous peritonitis is the most common

inflammatory disease of the peritoneum in child hood The acute form of the disease is of two varie ties the diffuse or miliary and the localized

The miliary type is an acute infectious process of the peritoneum associated with general miliary tuberculosis The acute localized form has its site of origin in the appendix and the ileocæcal group of mesenteric glands The chronic form of tuherculous

peritonitis presents itself in the ascitic fibringus (plastic) or caseous (ulcerous) form Septic peritoritis may occur during the course of otitis with thrombophlehitis acute tonsillitis scarlet

fever and influenza must be ruled out

In the differential diagnosis of peritonitis acute pychtis pneumonia diaphragmatic pleurisy stran gulated hernia injuries to the testes and orchitis Laboratory aids in the diagnoss are trocar puncture and tests for indican in the unite. In infectious peritonius the lengueste count is

In infectious peritorius the leneocyte count is usually high and shows an increa e in the polymorphonuclear cells

N. N. Rowzer, W.D.

GASTRO INTESTINAL TRACT

Boldyreff W N, and kellogg J H A Study of the Mechanism of Gastric Contractions Bull Buttle Creek Sant & Hosp Clin Battle Creek Makingan 1929 triv 289

The motor work of the stomach goes on duning both digestion and fasting. The motor activity occurring during the period of alkaline reaction in the stomach differs from the phenomena which occur during the secretion of said gasting junc. The vectory processes usually begin a lattle earlier than the motor processes. The intestinal contractions begin before the assirt contractions.

In a series of thirty experiments it was found that firsh active patients, incre is the only true rittend of the contractions of the empty interimenal towards. The ferments of the patients is used to the patients of the pa

The appetite stops the periodical gastine contraction for a slow time. When the stomach is blodge gastine contractions are unablisted by pain psychia disturbances warrung of the body, and phasine cological substances such as atropin. When digesting the stop is not in progress the add gastine junc on mally inhibits contractions but in the presence of irritation of the intestinal revious membrane there is an increase in the contractions but high may be accombanied by woming East Gustine 34D.

Brown A Congenital Hypertraphic Pyloric Steno sis and Its Operative Treatment Inn Surg 1020 75 507

Hone briefs, reviews the interature on pylone stens is and reports a series of meant's cases in which he operated. The ages of the babes in his case anged from their eight eight polynomial and the same and developed eventually to projectle womang without but which began as regurgitation and developed eventually to projectle womang eight polynomials. The same and the

these physical findings operation is indicated without further delay. Fluoroscopy was not employed in any case by Brown, but one child had been examined fluoroscopically before it was seen by him.

In the author's opinion the earlier the operation the better the chance for recovery and the less the danger of shock and dehydration Feeding method freatment are not particularly successful. If the child is seen early and a definite diagnoss is used alrown operates at once unless weight to a sidely distinct attempts and the marked. In cases with successful the child is seen early and a definite diagnoss is and early distinct attempts and a first operation of the child in the child of the child

Brown performs the Rammstedt operation under

ether narcous with the baby held down on a pre-

stouts, warmed narrow board by means of creditgrave bandsges about the arms and this, ittumor is delivered through a right review more,
and the muscle finers are spit in a longist the
polorist down to the muons. The tumor is desired
the polorist down to the muons. The tumor is desired
the roucous pouts out into the tunion is dev. The
profession of the polorist desired the adolession of the
the abdominal wall is closed by siture after the
calibration of the peritoneal calvations, a public
calibration to the peritoneal calvations, a public
calibration to the peritoneal calvations.

In the cases reviewed there were no deaths and in no instance was the muco a accidentally opened long it berry MD

Gutzeit k. Gastroscopy in the Clinical Diagnosis of Gastric Conditions (Die Gastro kopis in Ribmen, der kluischen Magendiagnostik). Ert bis d ein 16d 1200 xxxv z

This work is based on the authors extrasive experience. If attempts to evaluate gestionopy at compared with other methods used in the climate diagnoss of gastine conditions. In the first chapter the author gives a historical revoy of the desired of the procedure. He states that the district the author gives a historical revoy of the desired of the contract of the

almormatly bent toward the left In 500 gardent In 500 gardent beat to the great cut alter in the determination of the understanding the many than the percentage around the many than the percentage around gastinosopy. The percentage of patients subjected by him to gastrootopy The percentage of patients subjected by the most patients of the many than the many than the percentage around gastinosopy or of percent around the many than the

Cutzet thouses in detail the general preparation for the examination the amarthemia, the position of the patient the technique of introducing the gastro scope and the difficulties experienced. The accelerate reported in the literature be attributes to failure to consider contra midications to the procedure or circlesses in the introduction of the gastroscope. Whele not all accidents have been reported, flush ners collection (a accidents in 3 697 gastroscopies), shows that the procedure is not very dangerous.

In discussing the indications, the author warms against demonstration gastroscopies. The information to be obtained relates to the surface color, the contour of the inner surface defects in the muiosa motility phenomena, and mucus coating. The chief differ gastroscopy is the diagnosis of gastnits Gutzent believes that caucit diagnosis of gastnits Gutzent believes that caucit diagnosis with the possible the gastroscope for histological examination there fore the findings made up to the present time are fore the findings made up to the present time are to be evaluated with reserve. Gross changes in the muiosis such as ridges segmentation marked color changes granulations and ulcerations are recognitude without anatomical control but it is often appossible to determine whether they are recent or

In the diagnosis of uleer, a negative finding is not decisive as not all parts of the stomach can be seen, but gastroscopy is of value in revealing the inflam matory changes in the mucosa around an uleer. The author does not say whether the gastrinis associated with uleer is primary or secondary. He emphasizes that gastroscopy is of great value to determine the effect of inch of effect of non-operative determine the effect of inch of effect of non-operative determine the effect of inch of effect of non-operative determine the effect of inch of effect of non-operative determine the effect of inch of effect of non-operative determine the effect of inch of effect of non-operative determined in the control of the effect of t

With regard to the diagnosis of carcinoma the wither is much nor each than Schindler. He states that the differential diagnosis between car nomen and chronic gastrius is often very difficult and the occurrence of malignant degeneration of a chronic under cannot be determined with the gastroscope. In the solution of these problems the gastroscope In the solution of these problems the citizen of tissue which may be possible in the future extension of tissue which may be possible in the future parameter of the control for rone rongen and general chizcal examinations. It should be used only as a control for rone rongen examination.

Gastroscopy is of particular importance for the diagnoss of postoperative changes in the gastne mucosa which are often not shown by the mentgen ray It may reveal marked gastrits spasm in the newly formed gastric outlet a wellings ulcers at the newly formed gastric outlet awellings in the action of the new formed in the new formed the new formed in the new fo

Of particular importance is the author's comparsion of gastroscopy with roengen examination. The former is of value chiefly for the diagnosis of muosal morphology, and the latter for the diagnosis of gastric function but as a diagnosis of muosal changes can be made also with the \name is visit in which that the roentigen procedure is the more important method. It cannot be replaced by gastroscopy. When the roentigen findings are positive pastroscopy positive roentigen diagnosis does not explain certain associated clinical symptoms. When this is the case existroscopy is advisable.

Security of the danger of the latter is as great as that of the farmer but a fourteen day period or convalescence after an exploratory laparotomy is to be compared with the half hour required for gastro scopic examination followed at the most, by a sore throat for only a day. When all of the important parts of the stomach can be seen clearly with the gastroscope and no excinoma or after is found, the provided a carcinoma to some other place is not suspected. When the view of the stomach is unsets factory, exploratory laparotomy is justified.

In another chapter the author reports his experiences and observations by means of case histories. These are illustrated by numerous excellent roent genograms but no gastroscopic pictures.

With regard to the role of the muscle layer in the formation of folds the author states that he was unable to see in the gastroscopic picture any regular movement of the mucosal folds such as that observed by Forssell.

The diagnosis of gastritis is discussed in great detail. In this field, histological studies of the gastro scopic findings are still completely lacking. The author discusses Schindler a classification of gastritis (miscosal catarrh hypertrophic gastritis, and trophic gastritis) from the point of view of the attophic gastritis) from the point of view of the things of the point of the point of view of the limits himself to a detailed account of the gastro scopic facility.

In Gutzen's opinion the so called superficial catarn is noteworthy because the uncompleated catarnial superficial change is found most frequently in the oral part of the stomach (forms and orally). The superficial mutosal gastritis generally more being course under treatment, but has a marked tendency to recur. This changing focal inflammation of the mutosa gives the impression that the mutosa of the astrum and pylorus has a tendency toward a connective tassie reaction and the mutosa of the copius a tendency toward evudative and attorbut changes.

Hypertrophic gastritis is described in detail with 2 roenligenograms, r gastroscopic picture, 2 photo graphs of gross specimens and r photomicrograph lie most marked proliferative changes in the mu cosa were seen by the author in cases with stagnation of the gastne contents with and fermentation cases

of stenosis at the pylorus in the duodenum, or above an bourglass constriction

In addition, the author describes a case of atrophic gastritis (demonstrated clinically by anacidity) and several cases of gastritis associated with lead poisoning, in which all types of chronic ioffamma tory changes of the gastric mucosa (hypertrophy, atrophy erosions ulcers and small epithelial lesions) were found. He has seen true ulcers even in the ab

sence of gastric changes Gutzeit discusses also gastritis associated with disease of the biliary tract, which is occasionally disregarded and is the cause of poor results of opera tion on the hiliary tract. In this condition gastros

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A large chapter deals with operations on the stom ach The author has studied 40 cases in which opera tion was followed by poor results. The cause of the poor results was disease of the gastric mucosa which was present in every case and usually more severe than any other spontaneously developing gastne disease This material strengthens the theory that in the surgical treatment of ulcer resection methods are best Gastroscopic examination revealed prin cipally hypertrophic processes and marked swelling of the entire mucosa The cedematous catarth is the typical form of gastritis found in persons who have heen subjected to gastro enterostomy. The failure of the gastro-enterostomy is to be attributed to a primarily existing chronic gastritis or a parrow awollen gastro-enterostomy stoma which led to gastritis by causing gastric ileus

Of the defects of the gastric mucosa the author describes superficial epithelial lesions, crosions which he ascribed to an anamic or hamorrhagic infaret, and the typical round ulcer With regard to the question as to whether the ulcer is a result of the gastritis, he agrees with Schindler who unlike Korbsch and Hohlweg sees no causal relationship He states that ulcer and gastritis are different mani festations of a disturbance which he calls a pre disposition. In this process, peptie ferments play the chief rôle. The chronic ulcer, which is always associated with signs of inflammation frequently cannot he seen on gastroscopic examination author has repeatedly observed healing processes in chronic ulcer by endoscopic examination persisting gastritis in irreparable gastric changes is

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ingui across the uprinoma gastroscopy is of graphs to grand unce stifferentiation between early present present approach to the my designation of the dagnosts shat in cap procedure and gastroscopy the appearance of a pen remoma gastroscopy is of left to right across the up garantiation between

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McCann J C. Experimental Peptic Ulcer Ind. Surg 1919 XIX 600

In this study the technique of surgical duodenal dramage was so modified that the alkaline secretions of the duodenum were shunt d from the distal side of the pylorus into the fundic portion of the stomach Despite the volume of alkalies drained into the stom ach ulcers still formed in the anastomosed jejunum

an approximately 80 per cent of the experiments. Evidence was obtained which substantiated Mann's interpretation of the important mechanical factors that are active in causing these experimental ulcers and which probably influence the localization of chinical ulcers On the duodenal side of the py lorus these mechanical factors are the force of the impinging stream ejected through the pylorus and the destructive friction of coarse cellulose foods on the reparative granulations and epithebal cells of a healing ulcer On the gastne side of the pylorus there is the same friction of coarse cellulose food augmented in the prepyloric segment by the shience of protective ruge particularly on the lesser curva ture and by the vigorous tonic and penstalne con tractions of this segment which appear in response to an adequate meal

In a long series of experimental studies Maan and his co workers produced typical peptic alcers by in juring the neutralizing mechanism in the duodenum so that the acid chyme from the stomach could art on the mucosa without hindrance. In earlier studies McCann found that the mechanical factors active in producing such ulcers and presumably influencing churcal ulcers are the force of the stream ejected through the pylorus, the friction of coarse cellulose food and the vigorous motor activity of the pre

Employing a method of fractional gastric analysis pyloric segment which he devised for use on the dog McCann has found the chemical factor underlying the production of these ulcers to be normal acid peptic activity The ulcers produced exhibit the highly destructive character of the gastric chyme Of great significance is the gradient of immunity of the mucosa of the in testinal tract to ulceration which probably is the deciding factor determining the greater frequency of duodenal ulcer as compared with gastric ulcer and the tendency of jejunal ulcer to develop following gastro enterostomy

As spontaneous experimental ulcers of the chronic type produced in these experiments never developed in the stomach these studies demonstrate that the gastric mucosa possesses considerable immunity to the autolytic activity of the acid and pepsin secreted by the stomath, whether exposed to it for a normal period or for a prolonged period. The normal duode and immosa is also completely immiume to this activity under the conditions of a normal relationship between the acid chyme ejected through the pylorus and the neutralizing secretions present in the duodenum

With shight disturbances of the interrelationship for normal functions in the pylone region, the ordinary factors active in this segment assume pathological significance. Experimental disturbance of the relationships has developed a considerable amount of evidence that stands in answer to Cohnheims a statement that the real difficulty is in determining

the unknown something which prevents the healing of ulcer. The evidence indicates that the unknown something may be the normal acid peptic activity of the gastric chyme with the methanics of the region which act as a definite handicap once a

lesion has been established

The literature contains hitle on autolysis of the formach. Two such instances observed in an experimental study are reported. There may be a general analogy between the intracellular enzymatic activity responsible for general autolysis and the extra citizity responsible for general autolysis and the extra instances of autolysis of the gastric mucoss. This process may represent the mechanism by which isolated ulcers of the mucoss are established when there is a local reduction in the immunity of the mucosa to autolytic activity. It is probable that the mucous screen of the study of the mucoss to autolytic activity. It is probable that the mucous screen of the study of the mucoss to autolytic activity. It is probable that the mucous screen of the study of the mucous screen and the study of the mucous screen and the study of the mucous screen and the study of the stu

Cole L G Gastric Ulcer The Results of Operation for Corporie Utcer Am J Surg 1929 vii, 536

Cole classifies gastric ulcers into three groups via those in the vertical part of the stomach, i.e., so called body or corporci ucers, those in the pylonic region or antitum or the pylonic region just proximal to the pylonic valve the pylonic group and those most frequently located in the cap or the so called

first portion of the duodenum

He reviews twenty six cases eleven of which were treated by gastric resection ten by excision of the ulcer and five by gastro enterostomy without excision

Of the eleven patients treated by gastric resection ax lived to leave the hospital and ave died while in the ho total

Of the ten patients treated by excision two had a mucosal ulers and one an ulready healed ulter Of the remaining seven two died three were benefited and the condition of two hecame worse

Of the five patients treated by gastro enterostomy all fived but the author questions whether the ulcer healed because of the gastro enterostomy or in spite of it

Cole concludes that mucosal ulcers are superficial and transitory and are not to be considered surgical

He believes that an ulcer becomes surgical if it distorts the stomach, but in the twenty six cases reviewed there was none of this type. Ulcers occurring pearer the greater curvature than the lesser curvature should be regarded as being located in cancer areas. Any ulcer which increases in size after the initial avulsion of the crater should be regarded as malignant or at least not as a beingn type of lesson.

Gastric resection for ulcers of the corpus has such an extremely high mortality that it is not justified Gastro enterostomy for corporic ulcers is merely

an excuse to do something

In conclusion the author states that surgery should he resorted to in cases of corporic ulcer only when the lesson is found by \ \tay examination to increase in size during a three weeks period of rest in bed long W Nurne M D

White F W Observations on the Healing of Castric Ulcer N England J Med , 1929, ec., 1975

In the diagnosis of gastric ulcer in the observation of the healing of the ulcer and in the demonstration of the immediate results of medical treatment, the roenigen ray is of great value

Accurate diagnoss is the most important angle factor in the treatment Prolonged medical treat ment is contra indicated in cases with serious complications, perforation recurrent himotrohage, and marked pylone obstruction which does not yield and in the cases of patients who, because of financial or social reasons or lack of intelligence are unable to carry it out.

A study of fifty of the author a cases over a period of years showed that gastic ulcer usually heals in the intervals between symptoms and that healing may occur within a month or six weeks. The length of time required for healing varies for from one week to six months

In the cases reviewed the time of healing was not much affected by the age of the patient the size of the ulcer, or the duration of the symptoms White tries medical treatment first just as in cases of duodenal ulcer Surgery is not the primary treat ment He watches the immediate results of treat ment with the greatest care by frequent examinations Ulcers of the fesser curvature are much easier to watch with the X ray than others and yield remark ably well to medical treatment. In a persistent follow up for from three to nine years of fifty cases of pastric ulcer treated medically, including some in which late operations were done only one in stance of the probable development of cancer on an uker basis was discovered. The incidence of malignancy in this series was therefore 2 per cent This low figure may be due to the fact that when the sace of the ulver could be estimated the majority of the lesson were to ad to be of small or medium size According to the author's experience medical treatment of gastric ulcer is afe if the cases are very carefully chosen and followed up

MORRIS H KAIN, M D

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an hourglass constriction In addition, the author describes a case of atrophic gastritis (demonstrated clinically by anacidity) and several cases of gastritis associated with lead poisoning in which all types of thronie inflamma

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gastro-enterostomy As spontaneous experimental ulcers of the chronic type produced in these experiments never developed in the stomach these studies demonstrate that the gastric mucosa possesses considerable immunity to the autolytic activity of the acid and pepsin secreted In 1910 Payr of Leipzig recommended the "sleeve resection of the stomach

The surgeon s problem is twofold-diagnosis and treatment Diagnosis may be established only after careful and perhaps prolonged study of the case The services of an internist may prove most valu able. At times a positive diagnosis may he impos sible without an exploratory incision and in rare cases not even then. After the diagnosis has been made it becomes a matter for mature surgical judg ment to decide which surgical procedure is most likely to give the best results in the particular case The author states that he has long since abandoned the permissions habit of deciding beforehand what he will do in operating on a given case as each case is a law unto itself It is poor judgment and worse sur gery to push the use of any operative method be youd its anatomical and physiological limitations By so doing the surgeon courts disaster

When these fundamental principles of surgery boundarity established as they have been both his ioncally and by the combined experience of leading surgeons everywhere come to be thoroughly under stood and more generally observed much of the present dissatisfaction with the end result of sur ery of the stomach upon the part of both the pa

tient and surgeon will disappear

CARL R STEINLE M D

Buerger M and konjetzny G E The Utilization of Nourishment After Total Estitration of the Stomach (Ucher die Nahrungssusunizung nach Totalextryation des Magens) Zentralbi f Chir 10 9 p 1754

In the case of a patient subjected to total gas treetomy the authors attempted to determine which data are tolerated best after complete removal of the storace. The intake and output were accurately measured and the calone loss determined during periods of carbohydrate fat protein and mixed feeding

The results showed that the calone loss in all types of leeding is relatively small (hetween 2, 90 and 12 2 per cent). While the loss in proteins and carbo by drates remained within physiological limits of proteins and carbo by drates remained within physiological limits that the latest protein and the latest protein the latest protein showed a marked disturbance. The latest protein should be relatively secretions. They therefore conclude that persons subjected to total protein on the latest persons subjected to total protein one are red disturbance of lat shoop tion occur the administration of the Bastor CI is described.

Mueller E F Paralytic Iteus (Ueber den paraly tuschen Ileus)

Mill a d Gren geb d Med u Chir 1929 xh 417

The author attempts to analyze the origin of the individual symptoms in the paralytic ileus of perioditis. In the course of a local infection in the abdominal organs there develops as the result of

an autonomous vegetative reaction a dilatation of the vessels in the splanchine area with a corresponding reactive withdrawal of blood from the periphery As a result of this disturbance in the distribution of the blood there is a change also in function in the splanchine region and the periphery. Synchronous with the distention of the vessels there is reflecsional to the second of the second of the contractive stimulation of secreting cells in the stomach and intestines. This is followed by the increased production of concentrated gas region to testinal tract which explains a series of it pocal dess mainfestations such as disconfired makes and womiting

OI practical importance is the author's conclusion in agreement with the view of Levy, that the paral asses of the bowel in the early stages of peritonitis is not to be regarded as a muscular paralysis. It is the result of the increased vegetative stimulation which leads to an increase in the volume and elongation of the smooth musculature. In contrast to striated muscle which reacts to stimulation with the charac teristic rbythmic contraction this capacity for con traction is absent in smooth muscle Peristaltic movements which arise simply from shrinkage of the intestinal musculature cannot occur as long as the condition of increased volume persists Consequently. the clinical picture of antestinal paralysis results from the excitation state in the splanchnic area caused by the perstoneal infection. Under physic logical conditions the transmission of vegetative stimulation leads to segmental relaxation of the af fected portion of bowel Contraction occurs only when the irritating impulse ceases as the reaction of the previously stimulated intestinal musculature If the trutation continues as is the case in peritoneal infection intestinal contractions do not occur and the bowel remains in a relaxed and dilated state Therefore in peritonitic paralysis of the bonel the autonoms of the intestine is disturbed by excessive impulses transmitted by way of the vegetative trunks

Experimental evidence confirms this view. The unthor infected dogs by the intravenous injection of a bacterial emulsion and then determined the quantity of lymph flowing through the thorace duct During the stage of intestinal mactivity which was regularly observed after the experimental infection, the flow of secretion through the thorace duct in created and when persistals returned it again disminibled. The increased and when persistals returned it again disminibled. The increased attundation in the nerve trunks of the gastro-inestinal canal leads to insufficient closure of the cardia and polorus The explains the desire of the cardia and polorus the explains the continue of the cardia and polorus the explains the consideration of the cardia and polorus the continue of the cardia and polorus the consideration of the cardia and polorus the continue of the cardia and polorus the cardia and the cardia and the cardia and polorus the cardia and the cardia and

Similar occurrences must be assumed to explain the almost regular appearance of abdominal symp toms in general infections. In these conditions also there is a reactive hyperamia with increased function in the splanching region as is indicated by the hyperamia and increased activity of the hyer and Jordan S M Gastile Ulcer and Gancer J Am

The frequency of gastine carenoma its insidement on onest and the generally unsatisfactory results of surgery unless the lesion is in its very early stages are probably responsible for the still prevalent assumption that all gastine lesions should be treated surgeral by because of the danger of maligranicy. Lesions of years of the danger of maligranicy. Lesions of finally malignant lesions (j) frenk described in the danger of malignation and (j) questionable (ulers and carginable lesions and (j) questionable (ulers and carginable lesions and (j)).

questionate tuers are do to all be reguled as malgfastine tileers need not all be reguled as malgnant or even potentially malignant. Cases of frankuleer in which configen examination shows complete disappearance of the lesion and the clanical symptoms are completely releved may be regarded to the configuration of the configuration of the ulcest are of the case of the configuration of the these may be all partially made to the configuration of the case of the configuration of the configuration of the case of the configuration of the configuration of the case of the configuration o

Cases in which malignancy is suggested should be treated by radical surgers if after two or three weeks of medical treatment occult blood does not disappear completely from the stools the symptoms are not completely releved the roentigen defect does not disappear and the contour and tone of the

atomach are not restored to normal

With the exception of cases in which palliative
gastro enterostomy is indicated for an iooperable
malignant growth the surgery of gastric lesions
abould always be radical resection since all lesions
that are not potentially malignant can be healed by
medical treatment. Morsis If KARN MD

Hurst A F The Precursors of Carcinoma of the Stomach Lancet, 1919, coxxx 1923

Hurst states that in about 75 per cent of cases of caremoma of the stomach the condition is secondary to chronic atrophic gastritis. These include most cases with a short history, almost all of those with achlothydria and most of those with hypochlothy dria In about 1/2 per cent of cases the carcinomais secondary to gastric polyposis which is probably a result of hypertrophic gastritis In these, the history is generally long and achlorhydria is prohably always present. In about to per cent of cases the carcinoma. is secondary to chronic gastric ulcer. These con stitute a large roajonty of the cases with a long history, all of those with hyperchlothydria and a high normal acid curve and almost all of those with average normal acidity In about 45 per cent of cases the carcinoma is secondary to a simple adeno ma of the stomach In these the history is likely to he short and the test meal shows nothing character

The author is convinced that all chronic gastric ulcers however large and however deeply they in volve the panetress are capable of hedung under prolonged modical treatment so long as they have not given rise to mechanical obstruction. He sees he reason for advantage superfurther to a treatment of a gain, under producing no obstruction. For the less common prepayone under, he advance partial gastractions usin may be quite impossible to recognize early militaguat changes by simple inspection and the Yra ynefar fees definite information than in the case of the more frequent ulger of the lesser curvature

Hurst discusses also the recognition, prophylans and treatment of chrome gastribs

IACOR M MORA MD

Finney J M T The Development of Surgery of the Stomach Ann Surg 1929 at \$29 Finney considers especially the part placed by

American surgeons in the development of the surger, of the stomach but cites also the contributions of others from the time of Hippocrates up to the present day.

The surface material of the early days consisted of

The suture material of the early days consisted of large ant heads small filaments detached from the intestines of animals silk and known

The earliest surgical procedure on the stomach was the closure of accidental wound. The first planned operation was reported by Gunther quoting Crollins. It was the removal from the stomach of a knife q in long by Mathis in 1601. The patient recovered.

Apparently the first operation performed on the stomach hy an American surgeon was the situals of a stah wound which was reported in 1817 In 1837 Egeberg of Norway first recommended

the formation of a permanent fistulous opening in the stomach through the abdominal wall. have years late this operation was given the name given crostomy. Schulet in 2849 reported the first ease of planned gastrostomy performed on a humabeing. The patient dued. The first gastrostomy by an American surgeon was performed in 1659 by

Maury of Philadelphia
Reference is made to the work of Merrem Bill
roth Czerny Kaiser Kocher Pean and others

The first resection of the stomach was performed by I can in 1879 and the first successful operation of the kind was reported by Billroth in 1881. The first pylorectomy performed by an American surgeon was done by Winslow of Baltimore 10. 1884.

Gastro entensions was first performed in 1881 and was reported by Woelfler of Billroth schue in the same year Ransohof of Cincinnati was the first American surgeon to perform this operation. He reported it in 1884

Jaboulay in 1893 first suggested gastroduodenot tom, and performed the operation to year may be consistent of the consistency was first formed in America by Company of the Company of the

Crohn's studies of the immediate and late results m medically treated cases of duodenal ulceration agree in general with those reported by others Croha finds that the immediate results are very good 86 per cent of the patients being apparently cured and only 14 per cent not benefited Most of the recurrences become apparent during the second six months, when 34 per cent of seemingly cured pa tients develop unfavorable symptoms. In succeed mg years new cases of recurrence are added, but not at the same rate of progression. Within four years so per cent of the apparently cured cases will have relapsed On the other hand surgery according to its advocates will cure go per cent of the patients After the operative who survive the operation mortality has been deducted, the percentage of patients who are immediately henefited by either medical or surgical treatment is essentially the same hut as the length of time following the treatment increases recurrences appear more frequently in the medically treated group

The choice of treatment may well be hased on the get temperament, and economic condition of the patient and the duration and seventy of the symptoms. The patient who is over forty years of age, who has had symptoms either constantly, or even recurrently over a period of years and 4 who, hecause of temperament or lack of means is unable to follow the necessary detarty regimen is more properly a subject for surgery than the young man who has who was the contract of the property of the proper

As definite indications for surgery the authors list perforation organic obstruction impaired motility repeated hamorrhages persistent pain or discomfort due to local peritonitis or perigastrie or penduodenai adhesions unrelieved pyloric spasm chronicity repeated failure of medical and dietetic measures to give relief when the treatment and after treatment have been wisely advised and conscien tiously carned out cases in which economie factors necessitate limiting the period of disability the possibility of malignant degeneration of gastric ulcer as suggested by gradually falling acidity persistent occult blood and slight lessening of the appetite strength blood count etc and the possibility that the ulcer may be secondary to or its symptoms kept up by disease of the appendix or gall bladder or both

In 1927 the authors began a study of the late results following all operations which had been performed upon the stomach and duodenum in the Johns Hophins and Lunon Memorial Hospitals in the Years from 1900 to 1925. They believe that a period of at least two years must have elapsed before the late results of an operation for duodenal ulcer may be determined with any degree of assurance

In 380 consecutive cases of operation for duodenal ulcer the operation most frequently employed was

pyloroplasty This was performed upon 130 patients go of whom were subjected also to an additional operation such as appendectomy or cholecystectomy of active enterostomy was done on 96 patients 39 of whom had an additional operation. In the first surrounts there were 8 deaths a mortality of 5 8 per cent in the first group and 16 deaths a mortality of 16 8 per cent in the second group. The results therefore appear to indicate that the mortality during the first six months after operation is nearly three times greater after gastro enterostomy than after 19 loroplasty. In 15 cases in which partial gastrectomy was done for duodenal uleer there were no immediate deaths.

In the groups of this series which were large enough for statistical purposes from 15 to 20 per cent of the patients could not be traced after their discharge from the hospital Of 64 patients treated by gastro-enterostomy who survived the operation for six months 54 (8.1 3 per cent) were living and in better condition two years or more after the opera The corresponding percentage in the group treated by pyloroplasty was 858 per cent (6 2 per cent) of those treated by gastro enterestomy and is (so a per cent) of those treated by pyloro plasty who survived the operation for six months were not benefited However while 9 5 per cent of the patients subjected to gastro enterostomy died after six months only 3 7 per cent of those treated by pyloroplasty died after that length of time The figures indicate that about on per cent of those who survive the usual surgical procedures are markedly benefited but that this high percentage is reached only after an operative or immediate mortality of about ro per cent for the entire surgical group

In the evaluation of medical and surgical treatment of duodeal udee, it must be borne in mind that the two types of treatment are hardly comparable since surgery usually begins after medicine has failed. In the series of cases reviewed pyloroplasty was done in the more favorable cases while gastro enterostomy was reserved for cases in which pyloroplasty was not thought advisable—perhaps the more difficult cases. This may help to explain the favorable results under medical treatment and the rather high mortality rate after gastro enterostomy.

WEWER ELECTROPSERSING*UND***

Mallet Guy P and Étienne Martin M Pro lapse of the Left lliac Amus and its Compilica tion by Strangularion (Les grands prolapsus des aous illaques graches et leur complication d'étran glement) J de chir 1929 xxiv 475

Prolapse is a frequent and very important complectation of artificial anus. In the early stages it is a simple eversion of the murous membrane. In a more advanced, and the mission of the more advanced or and the intestine steps of the mission of the mission of the cylinder of intestine from 3 to 12 cm long extending downward and unward. Associated with this prolow of the mission of the mission of the mission of the abdomen for some distance around the opening is abdomen for some distance around the opening is spleen in febrile states as bas been demonstrated by the author, Hueck and others If the mercased ac tivity of the abdominal organs continues too long in persisting peritoneal infection biological exhaustion eventually occurs with irremedial injury of the cells It has been demonstrated in animal experiments that the measurable total function of the stomach and intestinal cells decreases considerably after a certain time Simultaneous with the decrease in the stimulation of secretion as the result of beginning biological insufficiency, blood and bacteria appear in the secretions. The exhaustion which follows excessive function may thus lead to profuse parenchy matous hamorrhages However, these late results are rarely seen in clinical cases as death usually occurs before such an extreme exhaustive state of the intestinal wall supervenes. In experimental bac teramia the lymph obtained from the thoracic duct is at first sterile. It contains bacteria only in the later stages when red blood cells also appear. In the author's opinion this fact is further evidence that the clinical manifestations of paralytic ileus in perstanctes do not depend on functional paralysis of the bowel since the intestines retain the specific capacity for secretion and absorption and, above all of protecting the tissues until an extremely advanced stage of the disease

I rom this explanation of the development of the paralty the fatte of the bowef the importance of the bown therapeutic measures becomes evident. Most important would seem to be sweating and the application of best to the shin to o vercome the congestion of blood in the planahma era: In a ddution atterping the properties of the state of the properties of the creased transmission of stimulating impulses by the increased transmission of stimulating impulses by the Increased properties of the properties of the Coreasity (2)

McWhorter G L. Acute Obstruction of the Smalt Intestine Due to a GattStone Recovery Follow ing Operation Arch Surg 1929 x1x 915

The author reports a case of acute intestinal obstruction due to a gail stone impacted in the lower ileum. Operative removal of the stone was followed by recovery.

A review of the literature indicates that such obstruction is most common between the ages of fifty and seventy years and is more frequent in women than in men

The gall stones gain access to the intestinal tract by perforation from the gail bladder or by way of the common duct. In tweath, five of thirty sur cases studied by Court on sixer there was a fatulal from the gall bladder into the duodenum in one cases with a first of the contract of the court of the gall stones is usually found in the terminal licens.

Roentgenograms may show characteristic evidence of intestinal obstruction together with the shadow

of the stone
The treatment is immediate operation Enter
otomy usually suffices

JACOB M MORA M D

Eliason E L and Hinton D Chronic Duodensi Ulcer Surg Clin A Am 1929 ix 1127

Most cases of duodenal ulcer can be divided into 4 groups according to the symptoms and patholog scal changes In the first group may be placed those without symptoms until perforation of the ulcer occurs The patients whose cases belong in this group are usually young and because of the absence of a suggestive history the condition is often in correctly diagnosed To the second group belong the chronic ulcers with recurrent exacerbations of the typical symptoms of hunger pain food ease and periodicity. In the third group are chronic rases in which the lesion has become more fibrosed rigid and contracted as the result of scar tissue formation This process causes a change in the symptoms Pain and dyspepsia become negligible and the local ten derness disappears but the patient complains of a feeling of fullness in the epigastrium Perforation and hamorrhage are apt to occur. If they do not occur the picture changes to that characteristic of cases in the fourth group in which the ulcer is cica trized the lumen of the duodenum is narrowed the duodenum and pylorus are distorted by adhesions obstruction is the dominant feature and the patient complains of a constant bloated feeling associated with nausea. It is in such cases particularly that fluids in large amounts should be given pareaterally or by rectum and in which spinal saxsthesis is especially desirable

of fig. cases of chronic dundenal uter reversed by the authors only 19 were then of femmle supdensity of the control of the control of the cases without rupture and 28 of those with rupture and 19 of those with rupture in the control of the cases without rupture and 28 of those with rupture and 19 of those with rupture. In only 11 cases was the X ray report doubtful or negative

HIBER BALLEY M.D.

Finney J M T and ttanrahan E M The Surg

tozo Xc oo4 A true evaluation of any therapeutic procedure is possible only when the natural history of the disease against which it is used is taken into consideration In determining the therapeutic value of a surgical procedure such as pyloroplasty or gastro-enteros tomy in duodenal ulcer two standards of comparison may be used The first is the result obtained follow ing expectant or medical treatment alone and the second the result following the use of other surgical procedures As the cause and pathogenesis of duo denal ulcer are not yet clear, all forms of treatment both medical and surgical are based upon accumu lated experience and are therefore largely empirical Both medical and surgical procedures aim to relieve pain secure better drainage place the affected part at rest hunt the amount of trauma caused by the passage of rough and irritating foods and eliminate any foci of infection that may be present elsewhere in the body

of recurrence. On account of its high mortality, the althorn openment and portation is not favored by the author Verdis plan of preliminary colostomy with secondary removal after an interval of two weeks gave much better results with a mortality rate of only 12 per cent. The majority of the Russons in the cases respected about a second of the colosins of the cases respected about a second of carriers or and Grade a misself as adenoma destruence or and Grade a misself as adenoma destruence.

The author describes the lymph node distribution as given by Grota and outlines his technique as

follows In cases in which the cancer is situated below the cul de sac the bowel is delivered through a supra pubic incision and a sigmoid colostomy is made through a left gridiron incision. In the second stage spinal anasthesia is employed. The coccyx and 2 or 3 segments of the sacrum are completely removed The bowel is then freed above the internal sphincter by careful dissection and divided by a Payr clamp and cautery above the sphincter The upper rectum is freed and all alveolar and glandular tissue re moved down to the pelvic fascia. The vessels run ning laterally to the rectum are severed, but the superior hæmorrhoidal artery must be preserved The rectum is brought out through the sacral wound and removed The sigmoid is carried down through the dilated anus and sutured to the mucocutaneous juncture with interrupted chromic catgut wound is then partially closed and packed with Penrose drains and iodoform gauze I wo or more operations are sometimes necessary to close the wound The colostomy is closed after an interval of from two to four months to allow complete closure

of the permeal wound
In the author's opinion the occurrence of down
ward metastasis from a tumor is due to the implan
tation of cancer cells at the time of operation

JOYES believes that the disgnoss of earmonm of the rectum is not given the attention it deserves by the physician. He states that the textbooks stress the late symptoms Early signs such as blood in the stool and a change in the bowel habit should be stool and a change in the bowel or unsatisfactory bowel station of gas in the bowel or unsatisfactory bowel movements are important. Constipation is a late with the stool and will establish the presence of polypo or an ulcera and will establish the presence of polypo or an ulcera and will establish the presence of polypo or an ulcera and will establish the presence of polypo or an ulcera and will establish the presence of polypo or an ulcera and will establish the presence of polypo or an ulcera and will establish the presence of polypo or an ulcera made of polypo and other suspicious lesions.

Since 1884 when the Kraske operation was in troduced resection has been more radical and has been done more frequently. The abdomnopenneal operation is advocated by many surgeons but has not become generally popular. An operation which includes a colosiony is often relieved by the patient and the family physician is often at fault in not accouraging its acceptance when its great benefits can be readily demonstrated. Proper care of the Colosiony by the patient will result in maximal

comfort The objection that the combined operation with colostomy has a high mortality is answered by the serious character of the disease. Local excision with a low mortality rate should not be compared with the combined operation with this larger mortal ity as each case must be treated according to its particular requirements.

The author discusses variations of the one and two stage operations and presents the statistics of 485 cases in which the growth was removed. The incidence of the year cure following all radical operations was 48 per cent in both general and private cases. This does not include the immediate mortality in the hospital. In cases treated by abdominoperin in the hospital in cases treated by abdominoperin cure favors the former operation.

WILLIAM J PICKETT M D

LIVER GALL BLADDER PANCREAS AND SPLEEN

Coller F A, and Troost F L Glucose Tolerance and Hepatic Damage Ann Surg, 1929 xc 78t

Believing that a glucose tolerance test might be of value in determining liver function if a new interpretation were made of it, the authors performed the following experiment

Glucose tolerance tests were carried out on normal dogs. Portions of the hyer were then removed at intervals at which time the glucose tolerance was again studied The animals were fasted for twenty hours before the test Following the removal of blood from the veins they were given 1 75 gm of glucose per kilogram of body weight in 100 c cm of water by stomach tube At intervals of one, two. and three hours, blood specimens were withdrawn sodium citrate being used as the anticoagulant Blood sugar determinations were made according to the Folin Wu method Portions of the liver were removed in successive stages, and after each operation, following an interval of at least three days to allow any possible variation associated with the operation to disappear the glucose tolerance test was again repeated

It was found that as the larger portions of layer were exceed the glucose tolerance test became altered. The fasting level was much lower the level to which the blood sugar rose one hour after the administration of the glucose was definitely higher examined almost as high and even after two hours remained almost as high earlier one hour. In fact in one animal the blood sugar level was higher after two hours than after one hour than after one hours.

The results obtained in two animals are given but no statement is made concerning the number of animals employed in this particular experiment

In order to compare the effects obtained by removed of liver with those of liver damage produced in other ways five animals after a preliminary glucose tolerance test, were given choloroform in oil subcutaneously. After this procedure in contrast to the normal curves obtained before the injection of

weakened and apparently atrophied. The prolapse may become strangulated The authors report seven cases representing the different stages

In addition to too large an onfice the factors responsible for such prolapse are a too long mesen tery and weakness of the abdominal wall. There fore as preventive measures the colostomy opening should be made as small as possible and the wall reconstructed in three layers. The intestine and mesentery should be fixed either by Gangolphe's double ligature or by colopery One of the best prophylactic measures is avoidance of the use of a collecting apparatus If the anus is properly made it will soon become continent. The patient may wear an ordinary abdominal band with a layer of cotton in front of the opening or in case of diar rbaa a small inflatable pad

When the prolapse becomes strangulated, operation must be performed otherwise gangrene with serious sepsis will result. Operation may be intra abdominal or extra abdominal The authors believe that in the great majority of cases it should be extra abdominal and that nothing more should be done than resection of the prolapsed part of the intestine Operation is unnecessary in simple prolapse of the AUDREY G MOSCAN M D

mucous membrane

Horsley J S Carcinoma of the Colon J Am M Ass 1010 2011 1372

The type of operation best suited to mahenancy of the colon depends on the extent and nature of the growth the patient's general condition and the presence or absence of obstruction. If there is acute obstruction nothing more should be done than enterostomy If the cancer is operable it should be excised after several weeks of general pre operative preparation consisting of irrigations through the enterestomy tube the intravenous administration of glucose and saline solution in amounts of from 1,000 to 2 000 c cm a day and a high ealone diet of carbohy drates without animal proteins. The intra peritoneal administration of vaccines prepared from fatal cases of streptococcus and colon bacillus peritonitis has also been found of value

As a rule, the multiple stage operation of Mikuhoz will be found preferable to the more ideal prim ary anastomosis However, it is advantageous to modify the typical four stage Mikulicz by extra peritonealizing and excising the growth in one rather than two steps as this removes the chance of contamination by cancer cells and the absorption of toxic material from the growth

WILBUR BAILEY M D

Bowlne H H Fricke R E and Smith N D The Treatment of Malignant Tumors of the Rectum by Radium and Roentgen Rays Radiology 1929 Ett 443

The majority of the cases reviewed were moner able, because of the size and extent of the primary lesion local metastasis, metastasis to important vis cera or poor general condition. Adenocarcinomata

of a rather moderate degree of malignancy predimi nated These tumors are sensitive to irradiation but vary in their degree of sensitiveness

In the cases selected for irradiation alone colotomy is of secondary importance, but if the indica tions are definite it should be done Colosiomy splints the bowel facilitates cleaning and aids

thorough treatment

The diagnosis is usually made readily by palpa tion and proctoscopic examination. Bionsy is peers sars in only a few cases. However, a speqmen should be removed since the grading of the mali nancy of the tumor is important to both the surgeon and the radiologist

The size character situation, and grade of malic nancy of the rectal growth as well as the patients general condition should determine the treatment a standard treatment should not be employed in all cases. As yet definite recommendations regardin

the most effective treatment cannot be made The risk of treatment with radium is very slight Radium and roentgen rays alone in selected cases or in combination with surgical procedures will give the best results Every endeavor should be made to individualize the treatment Prophylactic treat ment seems indicated in all cases in which adequate aurgical intervention is employed but can be applied only as a routine measure. All patients should be under careful and repeated observation

Palliation can be expected from reducing the potentials for destruction inherent in the primary growth Improvement is manifested by a decrease en the rectal discharge and the poin reduction of the size of the tumor and cessation of the bleeding

The results are in the main encouraging There roust be full cooperation of all concerned in the care of the patient. The assistance of a competent proc tologist is highly desirable

Verdi W F Resection of the Rectura for Cancer and Continuity Restored Ann Surg 19 9 xc

End Results of Radical Operations Jones D F for Carcinoma of the Rectum 4nn Surt 1919 xc 675

VERMI states that in cases of cancer of the rectum the intercate network of lymphatics in the rectum prevents a block resection such as is possible in can cer of the tongue and cancer of the breast When surrounding structures are involved the condition is considered inoperable and nothing more than simple colostomy is done

Rectal cancers situated below the cul de sac are operated on by the sacral route, and those situated above the cul de sac by the abdominal route but in every case an abdominal exploration should be done first to determine the extent of the disease and

the presence of metastasis verds reports 60 cases Thirty four of the patients The r patient who died survived for were men five years All of the others (some of whom were operated upon nine years ago) are well with no signs

preserves in muniture the contour of the original shadow. Elastic recoil would change the shape of the shadow, washing out would disrupt its regularity and muscular contraction would complete final shadow to be a shadow of the infundabulum and as k of the gall bidder. The only explanation that fits in with these facts is the uniform absorption of the dy-by the entire inner surface of the organ

Because of the disergent interpretations of the observations cited, Sacet is of the opinion that the question of gall biadder drainage is not settled. He can see no reason why bile from the gall bladder is at all necessary in digestion. He believes that the gall biadder collects the bile during the absence of diges tion for the purpose of conserving the bile salts. What I is Licritically, MD.

Lund F B The Importance of Medical Care and Consultation in Cases of Gall Bladder Disease Also the Advantage of Spinal Anvestesia in Operations on the Gall Bladder A England J Mid 1019 ect 1089

Lund states that gall bladder diseases with their accompanying leasm of the heart lungs arrival system and kidneys occur as a rule in persons of more or less stowanced age and perhaps recurred and properties of the state of th

The clark indications for spinal angulesia in a state of the state of

Reentgenograms made with the use of dye are a distinct and yet gall bladders which fill with the diemay be infected and require removal. They fill because the cystic duct is open. On the other hand sall bladders which for some reason do not fill may not be pathological. The symptoms are of paramount importance.

Drainage is established by means of a stale wound in order that the operative inclusion may be closed without drainage. If a considerable quantity of ble has been spilled it may be drained by a bit of ruh ber tissue passed down to the perstoneum

"forris II Kany, "I D

Rowlands R P Surgery of the Gall Bladder and Bife Ducts Lancet 1020 CCXVII, 1075

Following a historical review of surgery of the gall bladder and blied ducts, the author emphasizes the importance of a thorough study of the anatomy and pathology of the bilary tract before operations on the bilary organs are undertaken. He reviews the anatomical variations of the gall bladder, blue described the state of the s

He states that about 10 per cent of adults have gall stones and many more have cholecy stitts. Gall stonesmay remain dormant for a long period and may be descovered only accidentally during routine examinations or after death. The general indications for operation are obstruction and infection of the bilary tract. The mere demonstration of gall stones or cholecy satist by \(\tau\) ray examination is not a sufficient indication for operation. When symptoms persist or resum a pile of medical treatment, early operation

In acute cholecy states at as safer, when possible, to wait for subsidence of the symptoms before operating Emergency operations should be limited to

simple drainage of the gall bladder. The mortality in bilary surgery has been greatly reduced by adequate pre-operative preparation of the patient and by the administration of sugar-hexamine and calcium chloride intravenously when necessary. Septic foci in the mouth nose, and throat are treated to lessen the risk of pulmonary

complications. Ether is the preferred anosthetic but issuight alsep with local infiltration or spinal anz-sthesia may be used. Rowlands prefers the Acoher incision with sever ance of the rectus muscle for gall bladder surgery, and a right parametian incision for exposure of the common duct. Drainage when necessary, is effected

through a stab wound.

If the climical history physical examination and cholecystography indicate that the gall bladder is discassed it is generally best to perform a cholecys tectomy although the organ may not look very abnormal

It is important to remember that stones may re main in the common bile duct for years without causing jaundice. The author has seen obstruction of the common duct from hydatid daughter cysts and from a slough derived from the turned in edge after cholecy stostomy.

If there is saundice due to chronic pancreatitis or carcinoma, cholecy stogastrostomy is the procedure of choice. It is easier and is followed by fewer complications than cholecy stoduodenostomy, and it relevant the molecular liching and the risk of bleeding,

and prolongs life in comfort for at least many months.
Plastic operations on the common duct are difficult and dangerous. Direct suture over a rubber tube is usually practicable if not direct suture of the common duct to the duodenum by the Mayo method or the flap operation of Walton is indicated.

chloroform the glucose tolerance was distinctly abnormal in that the firsting sugar fevel was low and the sugar level after one and two hours was abnormally high

The authors conclude from these experiments that dogs with liver damage are unable to form glycogen, which is responsible for the low fasting blood sugar level and the liver has a decreased capacity for removing glucose from the portal vens following the

ingestion of glucose

Similar observations were made in ten clinical cases with definite intrinsic hepatar tessons. In each case a curve was obtained which was comparable to the case a curve was obtained which was comparable to the control of the contro

In summarizing their work, the authors conclude that in liver damage it typical (type of glucose metaholism is present namely a glucose-tolerance which is similar to that seen in diabeties. However the fasting blood sugar is low, which will distinguish the condition from diabetes. They believe that a gly cosuma associated with low fasting blood sugar indicates liver disease trather than disbetes.

ALTON OCHSNER M D

Nadler W II and Wolfer J A Hepatogenic flypoglycamia Associated with Primary Liver Cell Carcinoma Arch Int Med 1929 alw 700

In a case of spontaneous hypoglyczmus apparculy of heads to ongo who he reported by the authors attacks of hypoglyczmus domaneti the minecal picture for three and a half mouths. A pricury just cell carcinoma comprising from 70 to 80 per cest of the total liver mass and associated 80 th metastases in the regional glands mediastinum and lungs was found The remaining liver structure was deficient in glycogen and showed microscopic exdence of degenerative changes. The timor cells pol sessed no characteristics of islet cells and contained no insulin. Howard McMenter MD

Sweet J E The Function of the Galt Bladder

Sneet believes that the gall hadder is an organ of hoseption and that under normal conditions what ever passes into it through the systic duct never passes out again through the cystic duct. This conclusion is based on a study of the embry oflogical his tory of the organ, the development of the remarkably duplicated and folded mucosa the peculiar holos display and the elaborate and relatively farge lymphatic system of the organ, the parietal saccal and their apparent reaction to cholecy recomy, the

relation of the muscular coat to the mutosa the anatomical position of the organ the broad attach ment of the gall bladder to the undersurface of the liver and the two valvular structures at the ouler the S shaped curve of the cystic duct and the curious valves of Heister

In Sacct a opmon the theory that the gall bad dee empites through the cysic duct is hased upon faulty interpretation of the results of expensional more stigation. Direct observation is open to the caticesm that abnormal factors are introduced soft in the control of the contro

was so progress
A study of the gall bladder with the \ rays following the direct injection of lipindol into the organization of the protocopy is a non-physiological substacre. It is not absorbed his are of the membranes of the body and it acts as a pig on the absorbing surface of the muco a of the gall.

bladder inhibiting a normal process. The value of the use of Grshams doe given by mouth intravenously or by injection at hyaritory depends on the selectivity of the liver for this ros-stance in the hilood stream. When the cyas of the selectivity of the liver for this ros-stance in the hilood stream. When the cyas of the selectivity of the selection of the selection of the selection of the development of the selection of

returned to the gall bladder When rodized phenolphthalem is employed the non disappearance of the gall bladder shadow dur ing fasting is explained as due to the constant circu lation of the dye Specific removal from the blood stream by the liver cells followed by excretion into the bile with eventual resorption from the gall blad der is the mechanism involved. When food is introduced into the intestine the sphincter of Oddi refaxes and the dye containing bile runs into the in testine instead of the gall bladder. In the presence of food and digestive secretions it must be changed into a non absorbable form. This is evidenced by the well known fact that if the dye is given with food no gall bladder shadow appears Food then espe cially fat, accomplishes three things It opens the common duct breaks the circulation of die and changes the dye in the intestine into a non absorbable form Thus the elimination of the dye eventu

ally leads to fading of the gall bladder shadow.
It is characteristic of the disappearance of the disfrom most human gall bladders that the shadow dimmisshes in size retains its original density and fluid the so called "white bile" the presence of which is an indication of severe hepatic insufficiency. Of the six who recovered from the operation three had a carcinoms of the ducts from which they died at a later period. Two of them showed they died at a later period. Two of them showed the presence of white bile at the time of operation. but survived for four and fifteen months respectively. In three cases the operation was performed for obstruction due to chrome pancreatitis and the presence of some condition which prevented the performance of chole cystoduodenostomy or gastrostomy. These patients are altr and have been free from all symptoms for three six and six year respectively since the operation.

Haberer von Surgery of the Billary Tract (Zur Gallenchirurgie) Zentralbl f Chir 1929 p 1496

On the basis of his large experience the author advocates early operation in cases of gall stones. He cites a material of 801 cases in which he operated First he calls attention to the surprising difference between the hiliary diseases which he saw when he was living in the Alpine country and those he sees now in the region of Duesseldorf He has been obliged to change many of his opinions. In Vienna he saw very numerous cases of medium severity whereas in Innsbruck the number of such cases was small because in the Tyrol country gall stone dis tase is rare. As the cases seen in the Tyrol country were mild, von Haberer recommended closure of the abdomen without drainage when he was hving there In Stelermark he saw so many severe cases that he was less often able to close the abdomen without drainage. Formerly he operated almost exclusively under conduction anasthesia combined with splanchnic anasthesia but in Duesseldorf partly because of the obesity of the patients and partly because of their surprising sensitiveness he has seldom been able to use local anxisthesia

The cases seen in Duesseldorf are very difficult to treat. They all come for operation very late after attacks recurring over a period of years and the great majority of the patients are much over forty years of age some of them being between sixty and eventy years old As far back as 1925 von Haberer emphasized that the danger of operation is increased not so much by advanced age in itself as hy the organic injury especially injury of the liver and pancreas which is found in old persons because of long-continued neglect of the disease Patients be theen sixty and seventy years of age do not differ in their postoperative course from younger patients if they have had the disease for only a short time In the Rhineland von Haberer was impressed by the severe damage to the liver and pancreas in pa tients who came to operation at a relatively early age but had had their disease for a long time. In his twenty eight years of surgical practice he has been obliged to operate for pancreatic necrosis twenty h e times and nine of these operations have been performed in the ten months he has been at Duessel dorf

In his present practice von Haberer finds cholds dochotown precessary much more frequently than in his previous practice. As a rule it is indicated by cause of hierer damage. He states that the question as to when he operates in cases with reterus is easily supported to the control of the present of the control of the present on a to be classed as urgent. The danger of delay in the presence of interns is so great that be recarded immediate operation as less dangerous.

In the cases of most of the 50 patients were sury and severly years of age that has been sury and severly years of age that has been some sury and severly years of age that has operated by the severe which the properties as necessary. The mortality was only 5 per cent. You Habert therefore endeavors to snod operating during an attack as under such conditions the mortality was only 5 per cent. You Habert therefore endeavors to snod operating during an attack as under such conditions the mortality and any 5 very much greater. He so of the opinion that immediate operation is indicated only when a severe numy of the gall balder wall cannot be excluded, when there is danger of perforation and when in volvement of the panciess is probable or evident.

Pancreatits sometimes develops very insidously without marked symptoms. Acute pancreatitis can be recognized at operation even in the absence of fix necrosis and clinical symptoms. A gelatinous orderna is found in the region of the hepatodioidenal ligament and sometimes also in the region of the fatty those around the hepatic Environ of the fatty those around the hepatic Environ of the color.

Operation during an attack is indicated when icterus has been present for some time

Von Haberer now well understands the objections to his recommendation of closure without drainage, as in his present practice primary closure is seldom possible.

He believes that in our modern conception of hiliary surgery too little importance is ascribed to cholecystostomy He regards this operation as indicated in neglected cases which require surgical treatment in the inflammatory stage and in cases in which as the result of numerous attacks, there are numerous cicatricial changes at the neck of the gall hfadder and in the deeper hiliary passages. The danger of the procedure has been greatly decreased Von Haberer has never regretted performing chole cystostomy even when the fistula did not close and a secondary cholecystectomy was necessary Chole cystostomy does not render cholecystectomy more difficult on the contrary, it facilitates the removal of the gall bladder as it improves the patient's gen eral condition and causes subsidence of the inflam mation

When cholecystectomy is imperative, additional injuncts cannot always be avoided. The author cites a case of perforated gall bladder in which he accidentally remove a pace of the common duct; cm long. The accident was recognized at once and the defect hindged by a T-drain. On the basis of von Habberrs provide experience the T drain was not stoppered until after several months. The patient was discharged without any external loss of bile

In 251 operations for gall stones and cholecystitis at Guy s Hospital, London, the mortality was 28 per cent, and in 175 private cases, it was 6 3 per cent Two deaths following cholecystostomy were due to perforation of the gall bladder causing a subdia phragmatic abscess in one case and general pen tonitis in the other Two deaths following cholecus tectoms were due to pneumonia and pulmonary em bolism another death was due to perforation of the gall bladder with suppuration in the liver Tive deaths following choledochotomy were due chiefly to henatic insufficiency in late cases.

Cholecystostomy affords complete and permanent relief of symptoms in only about 45 per cent of cases Failures are due to overlooked stones the formation of more stones or persistence of inflammation in the

walls of the gall bladder

Cholecy stectomy affords complete rehel in about 86 per cent of cases Postoperative persistence of symptoms is generally due to residual infection in the liver or pancreas or to overlooked stones in the ducts, errors in diagnosis, osteo arthritis of the spine or spessic mucque colitis.

Choledochotomy is generally very successful Persisting symptoms are usually due to overlooked stones stones descending from the byer, strictures in the duct, obstruction by a blood clot pancreatitis or cholangeitis STANLEY II MENTER M D

Walton A J Reconstruction of the Common Bije Duct Sure Gynee & Obst 1929 zha 526

Walton describes reconstruction of the common bile duct as the formation of an entirely new lower portion of the duct and its opening as distinct from end to-end suture. This surgical procedure may be required after complete division of the duct either accidentally or by design or when the duct is still present but shows an irremovable obstruction Of Walton's series of twenty four reconstructions eight were necessitated by accidental division of the duet during an operation performed by another surgeon

Terminal and lateral reconstruction are described The former is rendered difficult when the duct has been divided very high up It is performed as

The duodenum is mobilized until it can be drawn up without tension to the hilum of the liver. In some cases in which the remaining portion of the common bile duct is sufficiently fong this mobiliza tion may permit direct implantation of the duct into the duodenum a method which should be carried out whenever possible, but in the majority of cases the remaining portion of the duct is of insufficient length and a true reconstruction is necessary A cat gut suture is passed through the upper border of the duodenum and through the posterior wall of the divided duct and tied the two structures being thereby drawn as nearly into apposition as possible The union between the divided duct and the upper border of the duodenum is then completed A flap is then cut on the anterior surface of the duodenum in such a way that the resulting opening in the

duodenum will be immediately opposite the cut end of the duct and the flap is turned down The upper portion of the opening of the duodenum is sutured until the opening that is left below is of the same caliber as the divided duct. A mere of tube about 1) in long and of the largest pos ible diameter is inserted into the divided duct and sutured in place with one stitch of plain catgut. Its lower end is then inserted into the opening in the duodenum and the flap turned up over it. In the upper portion the flap is sutured carefully to the duct and laterally it is sutured to the anterior wall of the duodenum which hes behind the tube

By this procedure a free but valvular opening is made and the new portion of the duct is formed by the flap of the duodenum which is lined with mucosa accustomed to the passage of hile A tube is inserted down to the juncture, in case there should be any

leakage and the wound is then closed It is this type of operation which is most fre quently required. When once the proximal end of the duct has been recognized and isolated the opera tion is simple to perform and a new duct of practically any length can be fashioned from the duoce

nal wall

The steps in lateral reconstruction are very simi lar A lateral openiog is made into the dilated duct as close to the duodenum as possible If there is any gap between the opening and the duodenum the wall of the latter structure is drawn upward and sutured to the duct immediately below the opening A tube is inserted into the duct and sutured in pos tion with plain catgut A flap is then made in the duodenum in the usual way and sutured sround the tube again a valvular opening lined with duodenal mucosa being thus formed In either case a tube is inserted down to the juncture for a few days in case there should be any leakage of bile The bile should immediately pass along the tube into the duodenum

The author's series of theoty four cases included nine of terminal reconstruction, twelve of lateral reconstruction two of immediate end to end suture

and one of overlooked division

In the nine cases of terminal reconstruction there were two deaths as the result of the operation. In one of these fatal cases the operation was performed after the resection of a carcinoma of the duct and in the other after an operative injury sustained five months previously Three patients have remained well and free from all symptoms for periods of tea four and one balf and three years respectively and one has had slight occasional attacks of Jaundice In two cases in both of which several previous at tempts at reconstruction had been made and exami nation showed very narrow ducts far up in the hilum of the liver the operation failed the obstructive Jaundice having recurred One patient died three years after the operation with jaundice and pyrena

Of the twelve patients with lateral reconstruction sax died as the result of the operation but three of these had far advanced carcinoma of the lower duct and in three the ducts were full of a clear mucoid

diastase The Unger and Heuss modification of the

Isolation of the tail of the pancreas resulted in a small but definite initial rise in the dastates in the blood followed by a second marked rise heginangs which both the head and the tail of the pancreas were lysted, immediate sharp rises were observed. On about the tenth day the values became normal and remained so As histological studies should death the initial cidema after ligation subsided at about the tenth day, the concludence of histological observations with the rise in blood diastase was string. When both the head and the tail we highed a minimised an immediate sharp rise in the blood diastase occurred but no secondar; rise was noted

The blood diastase is a sensitive inder of acute parcetate obstruction but is increased only in acute conditions. This is easily understood when it is recognized that the acute whose exerciting ducts are obstructed undergo degeneration. The authors believe that the high diastase values following believe that the high diastase values following works he had to be the high diastase values following works he was a second to the contract of the co

Warren S The Pathology of the Pancreas in Non Biabetic Persons A Study of 156 Con secutive Autopsies on Non Diabetic Patients

Arch Int Med 1929 xliv 663

The pancreatic lessons found at autopsy in 156 unselected non diabetic patients are summarized. The author states that practically any lesson found in the pancreas of diabetic patients can be duplicated in the pancreas of into abothe patients although lessons of the islands are much less frequent in the latter group.

Interstitial pancreatitis occurs too often in non dishetie patients to be considered a characteristic

lesion of diabetes

Lipomatosis is frequently related to the amount of body fat

Warren concludes that it is impossible to diagnose the presence of or absence of diabetes from a study of the pancreas Howard A McK-sterr M D

Grégoire R The Difficulty of Diagnosis in Chronic Pancreatitis (De la difficulté du diagnostic des paucréalites chroniques) Bull et mêm Soc not de chir 1929 ly 1124

Cancer of the head and neck of the pancreas generally develops rapidly and is accompanied by great Pain but the author reports a case in which it developed very slowly and before causing terminal cachena produced compression of the bule tracts the pancreatic ducts and the digestive tract

The patient was a woman forty even years of age who lived for two years and three months after the beginning of symptoms. The cancer was with out doubt of longer duration than that as it did not cause symptoms until it interfered with the function of the bile tract. When the patient first came for

treatment in February, 1924, she had had slowly progressing returns for about four months. She had fost weight and appetite but had been free from pain and fever. As it was impossible to make a diagnose of the cause of the retention reterus operation was performed. The bide ducts and gall bladder were found slightly distended, and in the head of the pancreas there was a diffuse induration about the size of a nut. It was impossible to be sure whether the induration was due to chronic pancreatities or a beginning tumor but as the patient was in good general health a palliative gastrocholecystosiomy

was performed When the patient was seen again ten months later she was in excellent health without any icterus but in April 1025 she began to have progressive signs of occlusion of the duodenum, and on April 25 she had an attack of tetany A diagnosis of occlusion below Vater s papilla was made and confirmed by roentgen examination Operation showed that the occlusion, which was not total was caused by a process of hard pancreatic tissue The head the neck and a little of the body of the pancreas were as hard as wood Duodenotejunostomy was performed The patient recovered from the operation but her general health grew progressively worse and she died early in March 1026

AUDREY G MORGAN, M D

MISCELLANEOUS

Bruce II A Some Unusual Types of Abdominal Himmorrhage Ann Surg 1929 xe 776

Four unusual cases of abdominal hæmorrhage are reported

In the first case that of a gril seventeen years of age, an intraperationeal hemorrhage was caused by a teratoma of the ovary. About two weeks previously the patient had been seized with severe abdomn al cramps. These had more or less subsided but on her admission to the hospital there was evidence of an actue abdominal condition.

Laparotomy disclosed a tumor to the right of the uterus which was first thought to be a today of the uterus which was first thought to be a today. The tumor was removed. After the operation to patient got along very well for about a week. Specially a terminal tumor was removed. After the operation the left chest sounded flat on percussion association revealed flethe and distant breath sounds and the temper atture rose to 100 degrees F. The patient became weaker and deed fourteen days after the operation.

At autopsy the peritoneal cavity was found to be normal but the left pleural sac contained about a qu of flud blood. The left lung was a hard fibrous mass adherent to the parietal pleura. The right lung was smaller than normal and presented numerous dark areas.

Vicroscopic examination of the lung revealed evidence of harmorrhage and edema and a number of alveol containing groups of small cuboidal cells which resembled the Langhans cells of the chorion The dram was not removed until ten months after the operation. In another case the ligature around the cystic duct cut through the rigid and inflamed tissue and such severe creatorical changes resulted that it finally became necessary to implant the central stump of the common duct into a duodenal fistila.

Von Haberet is becoming more and more conservative in making the diagnoss of gall bladder stass as the distended unexpressible gall bladder is distended unexpressible gall bladder is distended to the safety. While we know that a diseased functionless gall bladder can be removed without harm his does mit mean that the removal of the narmal organ, which has a pressure regulating function is stated to the safety of the sa

The author has learned also to knaw pertuosities following choicy steetomy. It was explained to him by a crae in which small drops of pus oursel from the smooth pertuonal covering of the gall bladder hed as out of a sieve. This was either an infection of multiple small. D sight channels in the presence of multiple small. D sight channels in the presence of from the gall bladder into an aberrant duct, the into portance of which is not very generally required.

The disturbances following gall bladder opera tions are in large part responsible for the internists dissatisfaction with operative treatment. Some of them are attributed to so called recurrent stones. but these are usually stones that have been over looked in the common bile duct. Other postopera tive symptoms are due to overlooked ulcer of the duodenum, the chronic pancreatitis which is fre quently associated with persistent biliary tract dis ease or the unhealed injection of the intrahepatic bule ducts mentioned by Popper in 1920 Such con ditions which may be associated with colics with or without icterus have often been observed by von Haberer In 4 cases he was obliged to drain the deep bile ducts So called postoperative adhesions in themselves seldom cause severe symptoms but over looked stones and overlooked ulcer make surgical statistics worse. Other suggested causes of post operative disturbances are apparently the results of neglect and accordingly reflect upon the internist rather than the surgeon SCHUENEMANN (Z)

De Takars G Correlations of Internal and Fater nal Pancreatic Secretion I General Consider ations and a Review of the Literature II The Histological Changes in the Isolated Tail of the Pancreas Arch Surg 1929 332 721 775 De Takars G and Nathanson I T Correlations

De Takars G and Nathanson I T Correlations of Internal and External Pancreatic Secretion III The Effect of Ligation of the Tail of the Pancreas on Diastee in the Blood Arch Surg 1929 322 783

Several investigators have reported an increase in sugar tolerance following isolation of the tail of the paniress. Some have found the increase temporary while others have noted its persistence for several

years Because of this discrepancy, De Takars made a histological study of the acim ducts and islands in an isolated portion of the pancress

Isolation of the tail of the pancreas was effected in dogs by the application of a massive ligiture around the gland section of the gland between two ligatures, or division with the electric cuitery Sections, were taken from the isolated potton of

the gland at various intervals Two days after the senaration of the tail the dominating picture of the isolated portion was that nf cedema After two weeks this portion looked anzemic and gravish white and was hard and nodular The individual lobules were compressed and sepa rated from each other by a moderate increase of cannective tissue. The islands were well presented. After four weeks the tail was even more sclerotic It bad turned into a whitish narrow cord acini were hardly recognizable but the islands stained well and were still prominent. After six needs the tail was completely cirrhotic and acutar structures could not be recognized. There was a marked probleration of the minute ducts and occasionally small buds papillary folds and eysue dilatations were found. The islands were still preliter twelve weeks the circhosis had progressed still further and connective tissue had proliferated into the amall irregular lobule. The islands were numerous and showed mutotic activity They were not only well preserved but also large in drameter After sixteen weeks a diffuse sciero is was present the vessels had thick walls but were pat ent Small ducts were numerous and many mant ducts were visible Large masses of macrophises and histocytes were present in the connective tiesue Groups of epithelial cells had the appearance of islet tissue and were identified as such by special stains These islets had a diameter from three to thirty times the normal In many instances they were grouped around small ducts

The forestern four seeds no senar element could be derived four seeds not presented with typical capablary arrangement. A trapphat of a portion harded teelve months previously had been made into the moentum. In the ometal fat a large number of ducts with think walls and including epithelung were seen. The only other capable menty present were large structure. These were decayed with sharply strungs are formed tound or drawn and time with a lamen in the middle as it they originated in the ducts. This purture was seen in the such transplants.

new sugar transplants.

DE TANAT's and NATHANOV studied th blood
dustates of dogs following ligation of the tail of
dustates in dogs following ligation of the tail of
panceas: It had been shown by time following
legation in the dart. Histological cust for the
first marked orders, of the separated study of the
two weeks followed by gradied custoff the
gland. Altempts were made to certified the
morphological object evalues with the values of blood
morphological object evalues with the values of blood

Golden R and Reeves R I The Significance of Calcified Abdominal Lymph Nodes Am J Roenitenol 1929 Yus, 305

Tuberculosis of the mesenteric [Jimph nodes has requestly been found at autopps without evidence of tuberculosis in the lungs or intestines. It is the sole important cause of caliended [Jimph nodes in the abdomen. The Jimph nodes most frequently in olded are those which drain the feloum excum and appendix and the provining part [Jimphadentus is adoubtless sometimes responsible for interphalmed and countries of the province of

fever and abdominal symptoms. The outstanding symptom is pain in the right lower quadrant of the abdomen or around the unblues. The pain may be dull and dragging or may occur in colicit, attacks. Examination usually revuls one or more tender spots and octasionally some rightly in these areas. The white cell country and increased even during the attacks. Begin operation the diagnosis can be made with certainty only by demonstrating typical calcided nodes in the

noentgenogram
Surgical intervention is indicated when hygenic
treatment proves unsatisfactory and when the
waynoons are so volent as to suggest a complication
such as intestinal obstruction or acute appendiction
such as possible, the pain usually cesses a short
imma after the operation and under postoperative
hygenic treatment the patient will remain free from
symptoms

liosemann G The Recurrent Retroperitoneal Lipoma I Clinical Considerations (Ueber das lendwierende retropentoneale Lipom I klus schef Teil) 17th klus Chir., 1929 clv. 336

The pararenal and retroperatoneal liporna differs from other lipomata in its unrestrainable growth and its tendency to recur after even the most thorough extripation. Its removal is difficult hecause of its sure and its growth around the ureter kidney blood wessels and intestines. It recurs in spite of the complete absence of signs of malignancy in its micro sconic structure.

Von Wahlendorf has reviewed 165 cases Schwalbe a theory that the tumor arises in congenital anlagen and is a dysontogenetic blastoma appears to be

The development of the tumor is insidence Because of the deep location of the neoplasm and the absence of special symptoms in the beginning the surgeon does not see the case until late. The tumor displaces the Ludies's and intestines and causes hydronephrosis status in the legs venous through boss, unrains from bulsteral renal injury, sless from tagrowth around the intestines emacatation anotexias, eacheria and marassius. Not rarely it is mistaken for a renal of overant furnities.

The treatment can be only surgical Roentgen irradiation has no effect. The operative mortal to varies from 25 to 38 per cent. Frequently it has been

necessary to remove a kidney or resect the intestine In 2 cases, bgatton of the iliac vein had to be done Laparotomy gives the hest exposure Recurrences have been known to develop even after six years

The author reports the case of a man fifty one years of age who was operated upon radically twice during a pendo of a year and a half. After eich operation and after the patient's death which or curred from recurrence and cachetia seven years after the first operation the tumor masses were examined most thoroughly, but no area in the least suggesting malignancy—not even enlarged lymph nodes—was discovered

Wilkie, D P D Some Principles in Abdominal Surgery Lancel 1929 ccxvn 803

The fundamental law of operative surgery is centleness. Its observance is particularly important in operations on the abdomen Traction and tension must be avoided. The normal state of the abdomen and its contents is one of relaxation. When disease or operative measures interfere with this relaxation and introduce tension, pain results. In any major abdominal operation adequate exposure is of prime importance in order that lesions may not be over looked A second cardinal necessity is effective mobilization. Immobile organs must be mobilized hy strategy based on anatomical facts rather than hy force This is demonstrated in resections of the colon, duodenum and appendix, and particularly in removal of the spleen In the mobilization of these organs there are two structures to be divided, first, the perstoneal folds which retain them and second the thickened extraperitoneal cellular tissue known as the fascia propria. The division of the extraperi toneal fascial hands helps most in the immobiliza tion process

In exections of the gastro intestinal tract, leaking from a suture him is usually due to tenion resultant from anadequate mobilisation. For safe anastomass the layers must be sutured together without undurension. The ideal method of anastomosis is the use of a single layer of interrupted Lembert sutures, lightly tued so as not to interfere with the shoot supply. When continuous sutures are drawn tight the same usually strangulated and infected singles are usually strangulated and infected daught and the relationship of gas may be relieved and drainance of the lumen a complished by caterostomy or execution.

Most abdominal pain excluding that due to irritation of the paintal pertindensin, results from spasm of or tension in the hollow viscers. Of form of intra abdominal tension is more important than that of the acutely obstructed appendix. The particular pathological processes occur in the appendix, mandely aphological processes occur in the appendix, mandely acute infection of the wall and acute obstruction of the famen. In the former the temperature rise, but in the latter, fever a absent during the early phase when diagnosa is most important. Ninety per cent of the deaths from acute appendix that occur in cases of pumary obstruction of the appendix with result

The tumor removed at operation was found to be a teratoma of the ovary which was undergoing chori ome epitheliomatous changes. The tumors which developed in the lung were secondary to the terat oma of the ovary

Bruce states that teratomata of the ovaries are rare constituting less than 4 per cent of all oversan

tumors if dermoids are excluded

The second case reported was that of a woman forty vears of age who had been suffering for a year from indigestion and malaise. Following a diarnosis of cholecystitis the patient had been put on a diet but there was no change in the symptoms

On the day of her admission to the hospital she was seized suddenly with severe pain on the right side of the abdomen This was followed by collapse with all the classical signs of shock slight mindice board like rigidity on the right side of the abdomen

and an increase in liver dulines

Immediate laparotomy revealed the presence of considerable blood in the peritoneal cavity. The liver was found to be markedly enlarged and purple The capsule was tense On the anterior surface of the liver, immediately below the costal margin a transverse laceration 355 in in length was found This was packed with gauze and the abdomen closed The patient never railed from the operation, and died on the third day

At autops) the liver was found to be twace its ormal size. The capsule was very tense, and the normal suse substance of the organ of a rubbery consistency

The spleen was normal

On section the liver showed many greenish white

areas mixed with purplish liver substance Microscopic examination showed atrophy of groups of liver lobules which were replaced by fibrous tissue red blood cells and hymphocytes. A diagnosis of acute hepatitis with early atrophy was made

The third case was that of a woman thirty nine years of age six and a half months pregnant who while sitting at dinner was suddenly seized with severe pain in the right side and collapsed A physician found a rapidly increasing tumor in the

right iliac region. A pre-operative diagnosis of ruptured uterus was made

At operation a rupture of the epigastric artery with the formation of a large hamatoma posterior to the rectus muscle and anterior to the peritoneum was found. The rectus muscle had been stripped from its posterior sheath over a large area stripping process had been carried out into the flank The artery was ligated the clot removed and the cavity packed with gauze. The patient made an uneventful recovery

The fourth case was that of a man forty say years of age who was suddenly taken with pain in the left lower quadrant of the abdomen During the attack a mass appeared which could be felt on rectal ex amination

Proctoscopic examination revealed an ecchymosis

of the rectal wall about 3 in up

Three days later the pulse was rapid and a swellin. could be made out in the left iliac, hypogastne and umbilical regions At laparotomy, nothing was found in the pen

toneal cavity, but a large collection of blood dot was discovered outside the peritoneum. The cavity was packed with gauze Transfusions were mien, but the patient died three days later

Autopsy disclosed a large collection of clotted blood separating the peritoneum from the panetal wall in front as high as the umbilious and extending backward and upward to the diaphragm No evi dence of a growth was found.

Subsequently it was learned that on a previous occasion the patient had had difficulty in stopping

bleeding At the time a diagnosis of hamophilia was made ALTON OCHENER M D

Truesdale P E Traumatic Rupture as a Sequence to Congenital Iternia of the Diaphragm with un Experimental Study of Its Vechanism and the Effects of Phrenicotomy Ass Sart. EQ Q TC. 654

Truesdale states that herma of the diaphragm is more frequent than is generally believed and may be the cause of attacks of dyspuga cough cyanous and gastric distress. He reports such a herma in a girl five years of age who was struck by an auto mobile sustaining injuries of the trunk and a feat ture of the femur During the patient's stay in the hospital she developed a paroxysmal cough amilat to whooping cough Later examination revealed dextrocardia On \ ray examination following barrum enema and a barrum meal the stomach and a part of the transverse colon were found in the left thorax A diagnosis of traumatic rupture and berms of the left diaphragm was made

Operation revealed the presence of a congental opening at the ocsophageal ring and a traumatic

rent extending to the periphery of the disphragm Repair was followed by recovery

In a study of diaphragmatic hernia made by the author on dogs at was found that after the produc tion of an experimental hernia the stomach and bowel did not enter the thorax at once hut were drawn up gradually by inspiration This finding explains why the child whose case is reported did not die from shoek or a sudden change in the position of the mediastinum at the time of the injury

Experiments with phrenicotomy on dogs dimon strated that the portion of the diaphragm which had been denervated ascended with inspiration in too trast to the normal side which descended The author calls this alternating motion a paradoxical

action

The article contains a number of roentgenograms demonstrating the transposition of the abdominal and thoracic structures during the development of experimental herma. Truesdale suggests phrenicol omy as an aid in the repair and healing of disphrag matic herner which have been treated surgically MILLIAN J PICKETT MD

GYNECOLOGY

UTERUS

Iracta D and Harguindeguy, E An Inquinal Hernia on the Left Side Containing a Urerus and Adness In a Case of Double Uterus (Hernia inguinal izquierda comprendiendo el utero y anevo correspondiente en un caso de utero doble) Bel Sec de obst y ginec de Buenos Aires 1929 vill 237

A woman thirty nine years of age came for treat ment for dyspareuma. The external generals were normal but the varina ended in a cul-de sac 8 cm from the hymen and no internal genital organs could he palpated. In the left inguinal region there was a pear shaped tumor which was slightly increased in size by effort and coughing dull on percussion, and punful on palpation The patient had never men struated, but for three days every month the in guinal tumor became larger and painful Roentgen examination showed the bones of the

pelvis to be normal A diagnosis of inguinal bernia of the internal genital organs was made. Operation revealed a rudimentary uterus ovary and tube in the hermal sac and a uterus and adnexa free in the abdominal cavity on the right side. The herma was

operated on hy Bassim a method

Up to 1923 seventy eight cases of inguinal herma containing the internal genitalia were reported in the literature The author gives brief notes on those re ported since that time, including three cases of such hernia in men In one of the latter the bernia con tained a uterus in one Mueller's ducts at the stage of the second month of embryonic life and in one Mueller s ducts at the stage of the third month of embry onse life AUDREY G MORGAN M D

Beuttner O Plastic Afterations of the Body of the Uterus Associated with Ovarian Tumors

(Modifications plastiques du corps utéria en presence de tumeurs ovariques) Rev franc de gynec et d obst 1929 KXIV 529

Supplementing the report by Schiffmann on distortions of the body of the uterus resulting from ovarian tumors. Beuttner describes three additional cases-two of large multilocular ovarian cysts and one of malignant cystadenoma in women from sixty four to sixty six years of age. No microscopic changes were observed in the uterine musculature

The author is of the opinion that the elongation and flattening of the corpus uten with occasional hypertiophy of one or the other uterine horn giving the appearance of uterus unicornis is due to traction at the point of insertion of the tubes and pressure exerted by the surrounding tumor mass He agrees with Schillmann that these changes are analogous to the elongation and hypertrophy of the cervix in prolapse and believes that advanced age is a predisposing factor HAROLD C MACK MID

Fluhmann C F The Endornetrium in So Called Idiopathic Uterine Hamorrhage J Am M Ass 1020 XCH, 1136

The author reviews the findings in ninety cases of so called idiopathic uterine hamorrhage. Fifty seven of the women were of the child bearing age and thirty three in the pre climacteric or climacteric period. The cases are classified according to the character of the bleeding into the following six groups (1) those with a regular four week menstrual cycle but in which the flow was prolonged and profuse (2) those in which the menses occurred at arregular and usually shortened intervals (3) those with completely irregular and atypical bleeding with no relation to the menstrual cycle (a) those with continuous bleeding setting in following a normal menstrual cycle, (5) those in which menstruation became progressively more profuse or irregular. ending finally in continuous or atypical irregular bleeding and (6) those with bleeding following a period of amenorrhora

Histological examination of the endometrium showed glandular hyperplasia of the endometrium in forty nine cases endometrial polypi in three cases simple bypertrophy of the endometrum in two cases endometritis in seven cases, atrophy in ave cases, and normal endometrum in twenty four

Hamorrhage of the endometrium may be brought about by (1) desquamation (2) localized necrosis (1) the supture of isolated blood vessels (4) injury to the endometrium following rupture of the deep

vessels and (5) diapedesis ALICE F MARWELL M D

Barris J Chronic Cervicitia (Leucotrhosa) Brit

Barris J Garrina Cartesian St. M. J. 1992 11 659

Strachan G I The Pathology of Chronic Cervi citts Bart W J. 1929 11 659

Statham R S The Treatment of Chronic Endo

cervicitis Brit M J 1929 II 661

Barres defines chionic cervicitis as an inflamma tory condition of the mucous membrane of the cer vical canal and the external uterine os due to infec tion which is characterized by leucorihora and usually but not invariably associated with a cervical

The discharge varies greatly in color consistency and quantity As a rule it is of a viscid white mucoid character resembling the white of a raw egg but it may be slightly yellow or green It is usually most profuse in the morning when the erect attitude is first assumed after recumbency and just before and after menstruction In cases in which the infection is of gonococcal origin the discharge is more definitely yellow and generally 15 mucopurulent When a ant tension, gangrene and perforation. The rising death rate could be checked if appendicutes were more generally recognized as a type of acute intesta nal obstruction demanding immediate operation

In acute diffuse suppurative peritonitis, dramare is helpful if it relieves tension by releasing purulent exudate If the tension is due to intestinal distention rather than a pentoneal exudate an enterostomy or excostomy will be indicated rather than pentoneal drainage at it not only permits the release of gas, but also acts as an inlet for fluid to combat dehydration

Multiple nathological lesions are frequent in the abdomen and the surgeon should search for them unless the operation is of an emergency character In order to avoid missing pathological lesions ade quate anxisthesia and a generous exposure are essen tial It is important to make a record of negative

findings for future reference

In surgery of the abdomen it is often necessary to resort to a two-stage operation in which the first stage is the minimal procedure that will give relief and tide the patient over the crisis and the second stage is the radical treatment of the causal factor During the interval between the operations the gen eral condition improves and the local condition in the vicinity of the lesion may be restored to normal

Specific local immunity can b produced by into ducing any foreign material bacterial or otherwise into the peritoneal cavity several days prior to the operation or by opening the andomen and handling of the viscera before the operation. In cases of resection of the colon the administration of two prelim nary injections of streptococcus and bacillus coli vaccine prior to operation results in a definite in crease in resistance to peritoneal infection

The Mikulicz Paul two-stage operation and its modifications are valuable methods of treating obstructing growths in the colon especially in feeble

patients

In intestinal obstruction drainage of the obstructed gut will afford some relief yet death may occur even when drainage is free The repleash ment of body fluids to combat dehydration is the first indication in the treatment Hypertonic salt solution is of special benefit. Fluid in an obstructed bowel is toxic but if the same fluid is introduced into the normal bowel below the obstruction it may be life saving The physiological lack of intestinal se cretion below the obstruction combined with a pathological retention above it is a problem which should receive further study

CYMIL I GLASPEL M D

bathes the cervix. The cervix then becomes sodden and sheds still more of its squamous epithelium and very little improvement is produced in the thicken

ing of the broad ligament

Another most excellent remedial method is the use of hot antiphlogisture tampons. These are formed of a cup shaped lump of antiphlogistine endosed in a single layer of gauze heated as hot as can he borne pressed and moulded right up against the vaginal vault and left in place for six hours. They require expert insertion but an intelligent nurse can soon learn to anoty them

The practice of putting in a ring pessary to relieve backache cannot he too strongly condemned A pessary tends to keep up the cervical infection and presses upon the tender fornices and ureters. It is far hetter to remove a pessary during the treatment

even though there is a considerable prolapse
Very excellent results are obtained also by dia
thermy with the use of a current which the patient
can just endure without discomfort. Distbermy is

especially valuable in gonorrhical cases

So far the treatment discussed has been that of cases of fairly recent origin. The author believes that when the condition resists the methods de sended the treatment is operative. He includes with operative treatment the use of the cautery When the endocervicitis is complicated by laceration it should be treated surgically because of the relatively great predisposition to carcinoma. The operations fall into three groups—repair, amputation and panhysterectomy The author believes that in the cases of young patients amputation is not advisable In some cases it is followed by abortion If it is per formed for hypertrophy it should be of the low type if the patient is young. In the cases of elderly pa tients especially if there is reason to suspect a uterine complication such as fibrosis the operation of election is panhy sterectomy The author prefers the Vaginal route with repair of the pelvic floor and penneum ALBERT M VOLLMER M D

Thibaudeau A A and Burke E M Carcinoma of the Cervix Uteri—An Investigation of the Relation Between the Histological Findings and the Results of Radiation Therapy J Cas or Retact 1020 MHz 200 MHz 200 MHz.

In their investigation of the relation between the histological findings in cases of carcinoma of the uterine cervix and the results of radiation therapy the authors studied twenty-eight cases tracted by Tadation in which there was no evidence of recurrence after more than five years and for companion as also authority of the companion was as follows. Group it malignarity companing was as follows. Group it malignarity configuring was as follows. Group it malignarity can be adjacent vaguial wall. Group 3 beginning the the most properties of the properties of the control of the configuration of the configuration

The histological classification was that suggested by Broders depending on the degree of cell differ

entiation as follows Group 1 75 to 60 per cent undifferentiated 25 to 50 per cent undifferentiated, Group 2, 50 to 25 per cent differentiated, 50 to 75 per cent undifferentiated Group 3 25 per cent or less differentiated, 75 to 100 per cent undifferentiated The malignancy index was determined also by the method of Huener

The authors conclude that histological grouping and malignancy indices are of limited value in the prognosis in cases of epithelioms of the uterine cer vix. Of the twenty eight cases reviewed in which no recurrence was noted five years or more after radiation 25 per cent helonged in Group 3 50 per

cent in Group 2 and 25 per cent in Group 1
ROBERT M. GRIER, M. D.

Percy J F Statistical Report of Cautery Surgery in Uterine Carcinoma Surg Grace & Obst. 1920

xhx 66t

This report is based on 134 cases of cervical car cinoma. The author divides the cases into 2 groups. The first group was made up of 28 private cases, treated in the period from 1903 to 1917, and the sec ond group of 23 private cases and 83 institutional cases treated in the period from 1918 to October.

1935
Of the *8 patients in the first group 9 (32 per cent)
are alive and well from nine to nuncteen years since
the treatment Of the 111 patients in the second
group, it are alive and well more than three years
group, it are alive and well more than three years
with the second property of the second property of the second property
and well from three to nuncteen years after the
treatment

Few of the cases were better than borderline cases, and many were advanced and inoperable Several cases are discussed in detail The author believes that more rehef can he given with the use of the cautery to these otherwise doomed patients than hy any other known method

T FLOYD BELL VI D '

ADNEXAL AND PERIUTERINE CONDITIONS

Wharton L R and Krock F II Primary Car cinoma of the Fallopian Tube A Series of Fourteen Cases Arch Surg 1929 xix 848

Whatton and Krock's series of 14 cases of primary carcinoma of the fallopian tube is the largest that has yet been studied in a clinic. The condition is very rare. Only 5 cases were found in about 35 con genecological cases in the Johns. Hopkins. Hospital Baltimore.

In the series reviewed the chief symptoms were a profuse vagual discharge which at times was blood tinged abort lancasting pain and occasional mensional disorders. The physical findings were variable Surgeits and sternlivy did not seen to have any relation to the conditions as shipingitis and sternlivy did not seen to have any relation to the condition. The growth was usually situated in the middle or other than the profuse of the truth of the tube and arose from the tubal order than the profuse of the profuse of the tube and arose from the tubal conditional profuse of the profuse of

vascular erosion is present it may be slightly blood stained following examination of the uterus or coitus General debility and anomia result from the ab sorption of toxic substances from the infected cervical canal Not infrequently, the patient complains of pruritus vulvæ due to the vaginal discharge. The condition may result in sterility Disorders of men struction and backache do not occur unless the in fection involves also the endometrium or the uterine Chronic cervicitis of itself does not cause arregular uterine bemorrhage or pain cervix has been described as the tonsil of the pelvis and may act as a focus of infection. It is known that puerperal pyosalping and peritonitis may occur in patients suffering from chronic cervicitis of gonococ cal and streptococcal origin. Cervical trauma and cervical erosion may be associated with malignant disease

STRACTIAN states that the essential lesion in cer vicitis is irritation produced usually by chronic progenic infection after laceration of the cervix at ehildbirth. The cervix is natulous lacerated and hrused With the vagina, it is hathed in alkaline lochia instead of the normal acid secretion its nor mal resistance to infection being thereby definitely

impaired

The organisms most commonly found in these cases are the staphylococcus, atreptococcus, and hacellus coli communis but in some cases the gon ococcus is responsible for the condition. In nul lipara, the gonococcus is the most common organ ism and exercises its well known ability to pene trate and infect an intact mucous surface

Cervicitis is characterized by cedema of the subepithelial stroma with an outpouring of lymphocytes and plasma cells especially around the blood vessels and the glands and under the surface epithelium The blood vessels dulate the surface columnar and glandular epithelium becomes irritated so that glandular hypertrophy and distention occur, and the cervical secretion becomes increased in amount and of a mucopurulent appearance from the admixture of inflammatory products The increased inflamma tory cervical secretion is known as leucorrhora. It always retains its thick viscid character Leucor rhora is almost always a sign of cervical infection Partly as the result of maceration by the continual leucorrhocal discharge partly as the result of being raised and devitalized by subepithehal ordema and partly as the result of trauma a plaque of squamous epithelium surrounding the external as becomes separated and cast off in the discharge a raw surface of varying extent being left wholly or partly surround ing the external os The columnar epithelium from the cervical canal being more resistant, is seldom af fected in this manner on the contrary it is usually stimulated to grow outward and cover over the raw surface so that after a time the area around the external os becomes covered by columnar epithehum which carries with it in its outgrowth cervical race mose glands To this area, which in appearance re sembles a red raspberry, the name ' cervical erosion

as given The erosion is not an ulcer and not a gran ulating patch it is an epithelium covered surface although there is often a breach of continuity be tween the two types of epithelium at the peophery Extension of glandular tissue on the portio is found also in the 'congenital erosion , but in this cond tion is usually regarded as the persistence of a fetal

condition STATHAU states that if the presence of the gono coccus can be demonstrated there is no treatment so good as daily douching with borne acid removal of the mucopus by wining and thorough swabbing of the cervix and vaginal vault with a per cent mer curochrome Strong solutions delay the normal proc ess of healing that is the replacement of the colum nar celled erosion by the normal squamous celled covering of the vaginal surface of the cervix. In all cases of recent infection with much mucopurulent discharge-even those which are not gonorrhealhe finds mercurochrome most excellent This may be used alternately with a 1 1 000 flavine solution Statham employs this treatment in all fairly recent infections of the cervix which are not complicated by erosion or extensive laceration. In cases in which the cervical canal is obviously infected fairly high up a Playfair probe can be employed to carry the solution as high as the internal os Prohably the next most useful remedy is 10 per cent silver nitrate

applied in a similar manner When the cervical infection is accompanied by faceration complaint is often made of backache and a dull pain in the groins. In such cases the hase of the broad ligaments will be found thickened and tender on one or both sides, and the ureters are often palpable and tender The condition causes frequency of micturition and usually is associated with a quite marked bacilluria The mild cellulitis with its con sequent fibrosis and contraction may cause far more discomfort than the laceration and infection author has found that hot and prolonged douching is by far the most effective remed) The douche is given as hot as it can be borne and is continued for at least fifteen minutes The patient lies in a warm bath and a large douche can is hung on a convenient ly placed nail The douche nozzle is inserted to the top of the vagina and the can repleashed from the hot tap as often as desired The presence of the warm water in the bath prevents a too rapid outflow If there is much pus the patient is told to give berself a short fysol douche in the usual way before getting into the bath The relief abtained from this treat ment is immediate and usually becomes permanent after a short time If the symptoms still persist the author explores the ureters for strictures

Glycerin ar glycerin and ichthyol tampons are of use only when applied by an expert nurse or the med scal attendant otherwise they are harmful The patient never manages to get them right up to the vaginal vault. Unless the tampons are correctly in troduced a gap is left between the cervix and the tampon and on account of the hygroscopic action of the glycerin, a pool of mucopurulent fluid forms and

As the delayed character of the menstrual periods, their paucity, and the associated sterility and re duction in fertility are expressions of ovarian bypo function it follows that treatment must be directed toward increasing or improving ovarian function The prst requisite is improvement of the patient's nutrition and her general hygienic and psychie con ditions in other words, general constitutional im Thyroid treatment when the basal provement metabolic rate is deficient and the administration of ovarian extracts of proved potency, pituitary extracts and emmenagogues are auxiliary measures While an ovarian extract containing a specific hor mone in sufficient quantity to make up the deficiency in any given case has not been elaborated to date the future holds out a fair promise for success

A more definitely proved and more efficacious physical agent is the \ ray Small doses of the roentgen rays applied first to the hypophysis and then if necessary, to the ovaries have proved suc cessful not only in restoring the menstrual periodicity to more nearly the normal in from 80 to 60 per cent of the cases but also in increasing fertility to at

least 50 per cent

The damage of the germ plasm which is supposed to result from roentgen irradiation has not been proved Nevertheless it appears highly desirable to supplant this treatment by the use of a specific endo crine product with a potency comparable to that for example of insulin Recent findings indicate that a combination of ovarian extract with pituitary extract may meet the requirements. The hormones need not necessarily be isolated from the ovaries or hypophysis themselves, but may be obtained more conveniently and in adequate quantities from excre tions and secretions in which they have already been found in abundance and from the placenta E L CORNELL M D

King E S J The Association of Endometriosia with Neonlasms of the Ovary Surg Gynec & Obst 1929 xlix 433

The association of endometriosis with neoplasms of the overy suggests that the stimulus responsible for aberrant endometrial growth may be due to a hormone formed in the ovary

king reports three cases of ovarian neoplasm associated with either local hyperplasia of prolifera tion of endometrial tissue in abnormal situations Attention is called to the fact that there is an

extremely close relationship between the ovary and the endometrium during menstruation and preg nancy The decidual cells occur not only in the endo metrium but also among other places, in the pen toneum fallopian tubes and bowel This distri bution is very similar to that of endometriosis and suggests a common factor

In two of the cases reported by the author the neoplasms were granulosa cell tumors. In one the tumor arose in a luteal cost King therefore suggests that the cells may function similarly to those of the corpus luteum or granulosa cells and produce a

follicular hormone which may be abnormal in amount or quality and produce an overgrowth of endome T FLOYD BELL, M D trum

Smith G Van S Proliferative Ovarian Tumors A Clinical and Pathological Study of 435 Cases Treated between 1875 and 1928 at the Clinic of the Free Hospital for Women Am J Obst & Gynec 1020, XVIII 666

With the exception of the dermoids, the origin of the proliferative ovarian tumors seems to be asso crated with a lack of ovarian function, abnormal ovarian function and ovarian involution. In some cases the prolonged arritative effect of the contents of certain henigh cysts may be the stimulus to malig nant change. In other cases malignancy results from a change in the methods of metabolism and growth of the cells brought about by byalinization and calcification or necrosis due to a decrease in the blood supply of the ovary or tumor caused by pres sure or torsion

No undiagnosed abdominal tumor should ever be tapped for if it is malignant tapping will reduce the

possibility of cure to almost nothing

Every effort should be made to remove an ovarian tumor intact without spilling any of its contents into the peritoneal cavity. Immediately upon its removal the tumor should be examined grossly and microscopically If it is a dermoid, benign pseudo mucinous cystadenoma, or fibroma, and there is no other pathological condition conservative operation is indicated. If it is a benign papillary scrous cystadenoma and the other overy appears normal, the indication for conservative operation in the absence of other pathological conditions will depend on the patient sage and desire for pregnancy If the other ovary is left, the patient should be watched for years If the tumor is malignant, radical opera. tion should not be deferred, even when the other ovary appears normal In every case, the vagina cervix and uterine cavity should be examined to rule out possible associated pathological lesions Spontaneous regression of a microscopically ma

lignant ovarian tumor did not occur in any of the cases studied by the author

Po toperative irradiation in three cases of malig nant tumor did not apparently affect the outcome In a few cases the microscopic grade of malignancy 13 of some value in the prognosis

L L CORNELL M D

EXTERNAL GENITALIA

Taussig F J Leucoplakic Julvitis and Cancer of the Vulva (Ethology Histopathology Treat ment Five Year Results) im J Obst & Gynec 1929 XVIII 472

Leucoplakic vulvitis appears usually soon after the menopause. It may involve the entire vulva or appear in symmetrical or irregular patches. In over one half of the cases there is obliteration of the labial and preputial folds known as kraurosis

(papillary alveolar and solid carcinoma). In some cases it extended along the tubal mucosa with implants reaching the pertineum and utenne cavits, but in those in which the tubal ends we occluded it was confined to the tube, producing a tumor mass and inetastishing by was of the limphitics and blood stream.

The treatment is radical surgical removal in the early stages

According to the results of the past the prognosis is almost hopeless. In the cases which are reviewed by the authors the longest period of survival after operation was five years.

ABRAHAM A BRAUER M D

Janney J C The Blood Test for Ovarian Hormone Am J Obst & Gynec 1929 2vin 207

In a series of tests made on the blood of women following childbirth the cestrus producing substance was found to disappear from the circulating blood rapidly after delivery

In a series of tests performed by the same method on pregnant women the incidence of positive tests increased with the duration of the pregnancy until it teached 95 per cent in the tenth lunar month

tenth funst month E. L. Cornell, M.D.

Neumann H D Illistological Studies on the Problem of the Sympathicatropic Cells (L. Berger) or Hillus Cells of the Ovary (Histologische Studien zur Frage der sympathicatropic Zellen (L. Berger) baw der Hilluszellen des Oranums) Arch Gynach 1929 CERRO 550

Following a review of the investigations which have been previously published in the literature Neumann reports his own findings in detail

Neumann studied two pairs of ovaries from fetuses 36 and 42 cm long eleven pairs from newborn in faints, mneteen pairs from adult women fifteen of whom were in the child bearing age fave of whom were pregnant two of whom were in the child hearing age fave of whom were pregnant two of whom were in the chimacteric and two of whom were suxty and sixty time years of ace

Only a small part of the ovaries was fixed in Wiesel's chromate solution. Some of the ovaries received preliminary treatment with osmic acid. With regard to each finding the method of fixation and the special stain used are stated. Numerous photomicrographs and coloted drawings supple

ment the text

In the hilus region of the ovary peculiar cells in very close relation to the hilus nerves were found. These were not a chance finding to be asembed to cell dislocation in the ovary. The cells belong rather to the normal histological elements of the ownam histological elements of the ownaminations. They are different to the histological elements of the properties of the propert

In pregnancy there is a distinct norcess in the number of these cells. It is event that the dood undergo complete involution following delicers at they are more numerous in multipart than insulation with the cells are the formation within their exists of of these cells and the formation within their exists of these cells and the formation within their exists of the cells and the formation within their exists of the cells are the formation within the behavior during preparing requires bother study. The question as to how these cells behave dump the menstrulal cycle is also suggested for future muestigation.

The nature of these cells cannot set be stated with certainty Von Winwarter and Wallart consider them paraganghon cells. Berger and Kohn refer to them as sympathicotropic or Ledgia this statist cells. Neumann agrees with you Winwarter and Wallart that they are a special form of paragankion cell.

As the material obtained at operation often as longer exhibits the chromatin substance comparative anatomical studies must be made in the future. It will be only when we have acquired a more it ensure anatomical knowledge of these cil elemant that their rôle in the female organism can be deduced.

A first (6)

Rubin I C Overian Hypofunction Ifabitually Delayed and Scanty Menatruation in Relation to Sterility and Lowered Fertility Am J Obs & Gynet 1929 xviii 653

The material upon which this article is based consisted of 1 044 consecutive genecological cases treated at the Mt Sinai Hospital New York 4 642 private gynecological cases 2 200 private eases of sterility and 600 private obstetrical cases.

It was found that the menses are habitually de layed or scanty in from 3 to 16 per cent of grecological patients and in about 10 per cent of some whose marriage 13 stelle. Women with delayed scanty menstruation are more apt to another of normally menstruation are more apt to another of normally menstruation are more apt to another of normally menstruation are more apt to be undeared of the per cent and the macheace of total sterily and to per cent and the macheace of total sterily including secondary sterily being in some group

as high as 93 per cent. The longer the periods of delay this greater the fine dense of sterility. Women with periods of the incidence of sterility. Women with periods of the incidence of conceiving that the sterility of fayed for a month and a many turns better chare of conceiving than those whose means are historially of force the sterility of the sterility of

delayed for periods longer than a month.

Not only as the inundence of both primary and
secondary sterility greater in women with hypomenorrhers and opsomenorrhers that total
fertility of such women is considerably diminished
in proportion to the reduction in the number of
mensitual periods per year.

OBSTETRICS

PREGNANCY AND ITS COMPLICATIONS

O Facrell M. Z. Extra Uterine Tubo Abdominal Twin Pregnancy (Embarazo gemelar extrautenno tubo abdominal) Bol Soc de obst y ginec de Buenos Aires 1929 vm 261

In the case reported by O Farrell the course of the pregnancy was normal up to the second month At the end of that time the patient began to have in tense pain in the right iliac fossa, which increased up to the fifth month when fetal movements began At the beginning of the sixth month the distention of the abdomen was out of proportion to the period of the pregnancy. In the eighth month the fetal move ments stopped, and fifteen days later there was slight menorrhagia At the end of the ninth month somit ing loss of weight fever and a rapid pulse began

Genital examination showed the uterus to be small and the pole of the fetus to be in the right that fossa At operation two macerated fetuses were found The patient died the next day Macroscopic ex amination of the specimen showed it to be a tubo-AUDREY G MORGAN, M D abdominal pregnancy

Marst J G. The Kidney of Pregnancy Am J Obst 6 Gynee 1020 XVIII 528

In the cases of nanety seven obstetucal patients subjected to cystoscopic and pyelographic examina tion ureteral obstruction occurred in only four. In two instances it was due to calculus in one case to congenital parrowing of the orifice and in one case to stricture. The infrequency of ureteral obstruction suggests that some additional factor is respon sible for impairment of drainage not accounted for by atomic ureteral dilatation or the latent infection so common in pregnancy. Hirst believes that this impairment is due to intermittent vasodilatation or chronic passive consession of and round the distal ureter evidenced by ordema of the orifice

Jaundice did not occur in any of the cases reviewed but in one instance a subacute exacerbation of a chronic cholecystitis followed ureteral cathetenia tion Therefore it appears that even if the renohe Patic interrelation is of importance in infection and toxamia it plays no great part in careful cystoscopie examination of the obstetrical patient

In two cases the urological examination was folloned by aggravation of a chronic pyelitis and in one case by precipitation of labor at term

The administration of heparmone will reduce the blood pressure but practically only during treat ment It must be supplemented by other measures It caused headache in many cases, convulsions in one case and a very sharp reaction in one case Very favorable improvement after discontinuance of in lections was noted in four cases.

The anthor draws the following conclusions r Cystoscopic utological diagnosis is an impor tant part of obstetrical service and when carefully

performed carries no undue risk Lasodilatation and circulatory stasis of the

distal ureter may be concerned directly or indirectly with late gestational toxemia 2 Early and late toxemia are essentially dif

ferent the latter is primarily of renal origin A Henarmone appears to bear sufficient specific

action to separate a hepatic type from the late forms E L CORNELL M D of pregnancy toxemias

Middleton D S Ureteral Dilatation of Preg-pancy Its Complications and Sequel're Edin burgh M J 1929 ETEVI 193

The average frequency of ureteral dilatation as given in various reports is 40 per cent. The right ureter is dilated more frequently than the left. The condition begins and progresses during the last six months of pregnancy It has been ascribed to pres sure on the ureter between the pelvis and the heavy uterus, ureteral paralysis, and the specific inhibitory action of bile salts on the musculature. The author agrees with Hofbauer that there is a hypertrophy of the connective tissue sheath about the ureter with a definite new formation of muscle fibers and con nective tissue that the same forces which have been acting on the uterine musculature throughout the pregnancy namely muscular hyperplasia combined with diminished contractility, affect also the uteters A ureteral stricture may be formed after repeated pregnancies because of the fibrosis resulting from the succeeding periods of hyperplasia

Acute pyelonephritis of pregnancy is very common and usually occurs on the right side always associated with preteral dilatation and very often with colonic stasis Therefore the sequence of events begins with the absorption of colon bacilli from the proximal colon and ends with infection of a vulnerable dilated ureter during the excretion of

the organisms hy way of the renal tract

The majority of cases of pyelitis respond to simple measures such as the free use of fluids, which pro duces a freer interchange of fluids in the ureteral residual urine the administration of potassium citrate and elevation of the foot of the bed to de crease the pressure exerted on the lower ureter by the lower pole of the uterus In cases which do not respond to these measures the introduction of a ureteral catheter into the dilated ureter may be fol lowed by subsidence of the infection. High lavage of the colon the source of the infection, is also indicated

Hæmaturia of pregnancy is due most probably to preteral dilatation with a mechanical disturbance in of long standing is the most pronounced symptom. In negroes, the disease is very rare. In over one half of the cases it leads to the development of carcinoma.

Chincal and histological studies tend to confirm the view that the underlying cause of leucoplature vulvirities alone of distinctly in the alone due to part to exist extreme the confirmation of the confirma

The treatment indicated in leuroplake valuely, is ecusion of the affected valued star. The five year results after such a vulk-ectomy are uniformly favor able and justify the disconforts attendant upon the operation. The discomforts have been greatly reduced by two modifications in the technique—the use of a vaginal flup over the perincum and the preservation of a double and bridge in cases of

persanal involvement

Cancer of the vulva is not a pathological entity.

There are four well defined types (1) epidermal cancer springing from the labial preputial or perineal skin and associated almost always with leukoplakic vulvitis (2) cancer of the chtoris a very rare

and malignant form (3) vestibular cancer ansig from the vaginal introitus and usually praging from old syphilitic ulcers in relatively, young persons and (4) cancer arising in Bartholin spland which is rare and usually follows chronic bartholinits

The author reviews seventy six raises of more of the vulsa about 60 per cent of which were openlie Classification of these cases according to the histological malignancy index showed that the mice or responded closely to the extent of the cluncal in volvement and that the cancers arising on a leuro plake basis were relatively beingin whereas thise

springing from syphilitic ulcers were very malignant Treatment of cancer of the vulva by radiotherapy has been very unsuccessful Burns occur readily and retrogressions are few and temporary Surgery alone is to be considered unless the patient's con dition makes it impossible. Simple vulvectomes and superficial or one-sided gland dissections are frequently followed by recurrence The bilateral Basset technique of gland removal together with vulvectomy is a safe operation followed by a high mendence of five year cures In the cases reviewed at resulted in a five-year cure in 81 8 per cent la two of the cured cases there was gland metastant la every case of leucoplakis the vulvectomy must be complete as a new cancer may arise years later from a remaining island of leucoplakic skin.

E L CORNELL MD

carrages than other factors in contrast to the figures of Sett, who assumed that syphila was the cause in a per cent of his cases of habitual abortion as regardly prenature burth his statistics indicate that syphilas is the cause of from two to set times as map premature her his statistics in some premature her his allows of premature burth of a dead or macerated fetus the fetus is syphilate mother survives two weeks the syphilas in the mother survives two weeks the syphilas in the mother survives two weeks.

As regards bitth at term, the author concludes that the chief of a syphilite mother is born alway and fire from symptoms of syphilis in only from 6 to 7 per cent more than half of the cases. Of the women with inantiest syphilis who were not treated only one third gave burn to infants one third showed syphilite manifestations. Syphilis prelongs the period of laborand the pureperum and causes more complicated that the constraint of the property of of the

ities
The transmission of the syphilitie infection to the

letus may occur in three ways

1. The fertilized ovum becomes embedded in the
syphilitic decidua, where the trophoblast immediately becomes infected, or it becomes implanted in
a normal endometrium and the placenta becomes

infected later

The infection occurs at the time of separation of

the placenta, during the tearing of the villi 3 The infection occurs percutaneously during labor, the virus being transferred from the primary lesion in the mother's genital tract to the skin of the

The first type of infection, which is the most inequent may result to abortion, premature birth or the birth at term of a dead and possibly macerated fetus. If the child is born alive it shows the manifest symptoms or the secondary or tertiary symptoms of symbias.

In the second type of infection which is consider ably less common the child is born alive and apparently normal, but after a shorter or longer period of incubation, develops the secondary manifestations of syphilis

In the third type of infection a living child is born which develops a typical primary lesion at the site of inoculation after the usual period of incubation

For the diagnosis of syphilit during pregnacy and abor the author tecommends besides a comsideration of the bistory and the findings of clinical camanation a Wassermann test on blood drawn blood that arm wen When it is difficult to obtain the control of the con

The diagnosis of syphilis in the newhorn is more difficult, but may be made from a strongly positive

Wassermann reaction in the mother during the first neck of the puerperium or from the demonstration of the spirocharles in the secretions and excretions of the newborn or in the internal organs of the dead fetus by Levadits staining method

Serological tests have shown that the incidence of

syphilis in pregnant women is to per cent The treatment of syphilis during pregnancy and labor attempts to maintain the normal course of pregnancy and prevent infection of the fetus. Pro nhylam is very important Syphilitics should be given permission to marry only whee, following three or four courses of specific treatment three examina tions at intervals of four months have proved them serologically and clinically negative. During preg nancy, the syphilitic mother should receive another course of specific therapy The author recommends the combined neosaly arsan and mercury treatment hut states that the latter may he replaced advan tageously by hismuth preparations. When the in fant is syphilitic it should always be nursed by the mother When it seems to be free from syphilis, neither the syphilitic mother nor a normal nurse should nurse it it should be fed with milk pumped

The treatment of infants born of syphilitic mothers should be begun immediately after birth even if they are free from symptoms. When this is done the prognosis as to life and cure is much better. The most advantageous treatment is the administration of bismuth preparations (0 3 to 1 e em) The com bined therapy (neosalvarsan and mercury) may also be begun by bismuth treatment in order to prevent the life threatening loss of weight which results from the sudden liberation of endotoring by massive treatment The treatment should be continued for at least two years, an average of two courses each of three months' duration being given yearly. At the end of that time the condition of the child and the Wassermann reaction should determine the manage ment of the case SILBICER (C)

from the breast or by artificial feeding

LABOR AND ITS COMPLICATIONS

Essen Moller E The Labor of Primtparæ Past Forty Years of Age Acta obst et ginec Scand

The author reverse the labors of 200 primipare forty years of age or older. Two of the women ded one from separs after labor lasting for one hundred and suty seven hours with a sacral presentation and the other from authe extangunation after spontane ous labor with placenta previa. Both could have been saved if intervention had been done in time

Seventeco of the infants died before during or after the labor, the infant mortality being therefore 8 25 per cent Some of these children could probably have been saved by earlier intervention

Essen Moller is of the opinion that primiparase over forty years of age are exposed to greater danger at labor than other women. While he does not approve of the routine performance of cesarean section.

the renal circulation consequent upon a rise in the intrapelvic pressure secondary to a rise in the intraureteral pressure. It usually occurs in raultipara in whom each succeeding pregnancy has caused more permanent ureteral dilatation. It is therefore commonly associated with a stricture of the ureter As infection is present in only about half of the cases it cannot be held responsible for the condition Catheterization of the renal and ureteral residual urine usually stops the hamorrhage, but it may recur later in the pregnancy

The close association between ureteral stricture and multiparity is demonstrated by the following observations

r A resemblance between the ureterographic appearance in the simple ureteral dilatation of pres nancy and stricture of the ureter

2 The frequency with which stricture affects the right ureter of multiparous women as compared with

nullipara and men

3 The fact that multipare suffering from preteral stricture have suffered from severe loin pain or hamaturia during one or more of their pregnancies and date the onset of their trouble from their last pregnancy

4 The fact that of eighteen cases, only eight

showed any trace of infection

The symptoms of stricture of the ureter in multiparm are humaturia of pregnancy and pain in the renal region usually on the right side which has heen intensified by each succeeding pregnancy ROBERT M GREEN M D

Schwarz, O II and Dieckmann W J Important Procedures in the Conservative Treatment of Eclampsia Am J Obst & Gynec Togo xem 515

In the treatment of eclampsia advocated by the authors magnesium sulphate in 25 per cent solution is given intramuscularly to control the convulsions Ten cubic centimeters are administered on the patient's admission to the hospital and 5 ccm after each convulsion until the convulsions are controlled The average amount over a period of five years has been 10 c cm The maximal amount, 50 c cm was given in only one case. In coma magnesium sul phate is not used The success of the small dose in controlling the convulsions and preventing their recurrence is attributed to the intravenous adminis tration of glucose

Believing that absorption from the alimentary canal is an important factor in eclampsia the au thors give a colonic irrigation and in addition sually wash out the stomach and leave 60 ccm of a saturated solution of magnesium sulphate in it

The next and most important procedure is the intravenous injection of 1,000 c cm of a 20 per cent glucose solution over a period of from thirty to fifty minutes, two three or four times daily, depending on the severity of the condition

Usually, after twenty four hours the stomach will empty itself. This is evidenced by mability to recover the injected solution The authors then inject

5 per cent Karo syrup water, beginning with 50 c cm and mcreasing the quantity hourly up to the pa tient s tolerance which may he as much as 100 c cm. per hour This treatment is continued until the pa tient is conscious and able to take the edamous

diet of fruit and fruit inices

After delivery or death of the fetus marked blood dilution and diuresis occurs Clinical improvement is closely associated with these phenomena The eclamptic woman has an increased tolerance for glucose, probably due to the retention of chlorides which occurs in pregnancy. The intravenous in jection of large amounts of glucose solution will simulate, temporarily at least, the effect produce! by delivery In severe eclampsia the promosis is favored chiefly by delivery or early death of th E L CORNELL MD fetus

Lopez R E Parathyroid Extract Collip in Eclampsla and Affled Conditions Report of Cases Surg Gynec & Obst 1929 alix 689

López reports a series of four eas a of edampsia parturentum in which he found parathy roid extract (Collip) very beneficial A diuresis was usually initiated on the second or third day after the injection and increased daily for four or ave day suntil the ordema disappeared In two cases a fall in the blood pressure of 40 points occurred The disances headache disturbances of vision and muscular cramps improved readily In two cases the convul sions ceased soon after the injection. In no case did the injection start labor pains but in one case in which the pains were already present it stopped them and they did not recur while the treatment was continued. There was no change in the letal heart tones The calcium in the blood did not increase after the use of the extract. The dosage ranged ASSABAM A BRAUER MD from ro to 85 units

Scipindes E Pregnancy Complicated by Syphilis (Komplikation der Schwangerschaft mit Syphili.) Actes Unte Set hungar elegabeth 1929 vi 293

The author discusses pregnancy complicated by syphilis on the basis of a very large number of cases seen in the choic which is under his direction The article contains numerous tables of statistics on

different aspects of the condition

The statement of Seitz that syphilis plays no etiological rôle in spontaneous abortion occurring in the first four months of pregnancy was only par fall) substantiated by the author's material women with a positive Wassermann reaction 533 per cent had aborted spontaneously by the end of the fourth month whereas of those with a negative Wassermann reaction 63 2 per cent had aborted spontaneously by the end of that time On the other hand those with latent syphilis had 53 3 per cent more miscarriages than those with manifest syphilis In the later months of pregnancy syphilis became

more important as a cause of abortion. In the cases of women with habitual abortion syphilis was responsible for only from 2 to 3 per cent more musExternal version is being more and more advocated but there are numerous cases in which it cannot or should not be done

The chief source of danger in breech delivery is the undilated cervix. In the cases reviewed by the authors, \$2 per cent of the primipare and 40 per cent of the multiparse had trouble on account of non dilatation of the cervix A hands off 'policy until the cervix is completely dilated should be the rule but there are many cases in which the cervit will not dilate even after prolonged labor. This is apt to be true especially in cases of contracted pelvis In the cases reviewed by the authors, 60 per cent of the primiparse and 32 per cent of the multiparse whose labors were complicated by failure of the cervix to dilate had a contracted pelvis Manual dilatation of the cervix is most unsatisfactory often resulting in serious tears and paralysis. In many cases cutting of the anterior hip of the cervic should be done

Prolapse of the cord was found in 12 of the *56 cases cited In 8 of these stillbirth resulted

Many obstetricians have advised routine interterince with the second stage under deep anxisting. This policy was followed by the authors as a matter of routine for a short time but the mortality or creased so greatly because of majudgment of the certification of the completion with the contential and vanious other completions which are in cases managed by less experienced operators that it was abandoned for the more conservative hands off policy. The mortality then showed a marked reduction.

In view of the high infant mortality the prolonga tion of labor which is frequently necessary to effect delivery safely, and the serious complications which often develop it is not surprising that casatean section is being performed more and more frequently a cases of breech presentation. Some of the still born infants could have been saved by existean section but the frequent use of the operation will undouhtedly increase the maternal mortality and in the vast majority of cases casarean section is un necessary It is indicated however in the cases of elderly primiparse if difficulty with delivery is fore In cases of contracted pelvis it should be considered not only on account of the unmoulded aftercoming head but also on account of the difficulty in dilating the cervis

Becassis in discussing this report stated that according to the statistics of 9 coo deliveries in cases of contracted pelvis since 1924, the operation of vision and extraction is being performed in such cases much less frequently today that when it has been attempted the infantle mortality has in creased and that elective crestrean section has proved the operation of choice.

Effect analyzed a consecutive series of 518 private cases in all of which proper prenatal care was given. He made 11 successful external versions in recognized breech presentations with the loss of 1 baby and in the same series had 11 breech labors with 3 fetal deaths. As the 1 death after successful

external version was caused by unavoidable crain otomy it cannot be counted against external version. Among the 3 habies lost after breech labor there was 1 with enormous cystic degeneration of the kidneys. The death of this infant therefore should not be counted against breech labor. One of the 2 other infant deaths after breech labor occurred in the case of an elderly primipars with a typical, long labor. The haby died during hirth. The second control of the counter of the counte

VATITEMS stated that in his opinion most balues are lost on account of too much burry in delivering the breech and after coming head. At the Methods Episcopal Hospital Brooklyn, during the past two and a half years there were 100 breech presents two and 2 versions making a total of 214 breech deliveres. The incidence of stillbirth was 122 per cent. In the 43 breech presentations at the Long Island College Hospital Brooklyn, during the past year the incidence of stillbirth was 122 per cent.

POLAK said that after the cervix is fully dilated and the breech has presented and is out of the vulva the obstetrician should not pull but should merely guide

DELEE stated that in 6,031 births at the Chicago Lying In Hospital in 1026 and 1027, breech presenta tions occurred in 50 (4 I per cent) The reason for the high incidence is that this hospital receives a large number of referred cases of breech delivery In the 250 cases breech extraction was performed 166 times and exsarean section 43 times. In the remaining 41 cases the labor was spontaneous or manual aid was necessary One hundred and forty seven of the nomen nere multiparm. There were 24 fetal deaths Fourteen of the babies were still born and 10 died later When the babies which were dead at the time of the mother's admission to the hospital the monstrosities the syphilities those with intestinal obstruction and the eclamptics are de ducted the corrected mortality in the 250 cases was s 6 per cent

KING recommended external version in cases of breech presentation. He believes that assistance should be given only when it is necessary

E L CORNELL M D

Moir D G The Mechanics of Internal Rotation of the Fetus Edinburgh M J 1920 XXV1 211

More presents an extensive survey of the interature and discusses the various theories concerning the mechanism of internal rotation of the fetus. His own theory is based on mechanical forces. From his investigations he coverlades that in the process of moulding the fetal head becomes a bluntly pointed cylindrical structure, that when the moulded head is fully freed the long aris is very nearly parallel with and se continuous with the long axis of the body and as continuous with the long axis of the body.

on such primipare as has been proposed by others he believes that this operation should be done more often when careful consideration of the conditions in the particular case indicates that the dangers to the child may be decreased in this way without subjecting the mother to greater risk.

Frey L. The Significance of Labor Pains in the Physiology and Pathology of Labor in Premature Rupture of the Membranes (Die Bedeuting der Wehentalef fuer die Physiologie und Pathologie der Geburt beim vorzeitigem Bläsen prung) Schaet med Richarkt 1991 1613

The author has made extensive investigations regarding the significance of premature rupture of the membranes and has arrived at some entirely new conclusions

By 'premature rupture ' is meant rupture occur ring before the onset of labor pains. The demonstration of an alkaline reaction of the vaginal contents is an uncertain criterion. In over 3 000 delivenes in the Obstetrical Chaic at Junch premature rupture of the membranes occurred about one third times more often in primipare than in multipare and was more frequent when costus had been practiced in the last month of pregnancy In cases of narrow pelvis it is from one third to one fourth times more fre quent in both multipara and primipara. Prolanse of the cord is more common in cases of premature rupture of the membranes The author found the incidence of prolapse of the cord to be 2 24 per cent in cases of premature rupture of the membranes and only 3 98 per cent in those in which the membranes ruptured at the normal time. Prolance of the cord necessitates operative intervention and operation in the presence of premature rupture of the membranes is followed more frequently by fever in the puerpe

The author points out that up to the present time the total number of pains at a particular labor has never been recorded. He found that in multiparse the first stage of labor is completed by one third and the second stage by two thirds the number of pains occurring in primipara. He found also con trary to the previous belief that the first stage of labor in primiparæ as well as in multiparæ is one third shorter and has fewer pains following prema ture rupture of the membranes than the first stage with a similar presentation and normal rupture of the membranes. However this observation should not encourage artificial premature rupture of the membranes because in the spontaneously occurring premature rupture the hormonal inhibition is deficient because the pregnancy has reached its hiolog ical termination and hecause of a certain reflex of a psychic character hased on the sympathetico adrenal system In artificial rupture of the membranes these factor, are absent Therefore artificial rupture of the membranes during the period of cervical dilatation

should be avoided

By means of tables the author shows that in 40
per cent of primipars and 70 per cent of multiparse

the first stage of labor was completed with 50 labor pains and in o. 5 per cent of primipare and coper cent of multiparm it was completed, at the very most with 150 pains. In the others up to 200 pains were necessary Therefore when the primary vagnal findings are not known and the first stage of labor is not completed after 200 labor pains following ruo ture of the membranes spontaneous dilatation of the cervix is not to be expected and the birth of a live child is improbable since in the presence of dilatation the size of the palm of the hand, manual reposition of the incarcerated cervical lips is impos sible In cases in which the size of the cervical dilata tion after rupture of the membranes is known it is necessary to wait only for 100 labor pains. If the cervix remains unchanged during this time sponta neous dilatation is impossible and there is danger of injury from severe pressure. Expectant treatment therefore should be abandoned if the cervix has not dilated to the size of the palm of the band and if it is impossible to replace the compressed lip of the errors The author designates this as the syndrome of fixa tion, formulated from the number of labor pains lie therefore believes that in such cases it is no longer necessary to await the syndrome of incarceration of the istbmus after premature rupture of the mem branes namely, a bloody transudate in the amnion and pressure ordema of the cervis it is necessary only to count the labor pains. When the ammon is intact incarceration of the cervix never occurs

In recent obsistance, operative and has not been notafficents but omentiment that been given too lite Premature apportune our update of the remaining the produced of the membrane therefore has great sugnificance. Our knowledge in this field has been widened. It remains to be dree mixed in further studies whether in the present edispreportion, and premature rupture of the membranes no consideration should be given to the child or abdominal section should be present on the child or abdominal section should be present on the child or abdominal section should be present the mother of the child of the

Caldwell W. E. and Studdiford W. E. A Review of Breech Deliveries During a Five Year Period st the Sloane Hospital for Women 4m J Obs 5 Gys. c 1929 2011 623

The authors review 3.48 breech deliveree occurring the Nonen Hospital for Women New Yord drage the years from 1921 to 1927 inclusive Ninety red of the babies were markedly premature of mercated weighing under 4 lb. In 250 cm 1921 to 1921 the process of the mercated weighing under 4 lb. In 250 cm 1921 to 1921 the process of the process

ity was it I per cent

A very large proportion of the infant deaths in
breech births occur among macerated, showmal
and premature children and in cases of multiple
birth. This mortality will be reduced by better
prematal care.

branes and when the pulse and temperature were normal. In 3 cases autops, revealed suppuration in the wound as the point of origin of the peritorities

In the last ten years 134 deep cassarean sections were done with 10 deaths 6 of which were due to eclampsia 1 to valvular disease 1 to collapse eight een hours after the operation with premature separa tion of the placenta and a to nulmonary embolism Not a single fatality was due to infection. In 3 cases there was a suppuration of the abdominal wound Thrombosis occurred in 13 cases and embolism in 2 Aside from the frequency of thrombosis the post operative course was much more favorable than in the series of cases in which the classical casarean section was performed. In 12 cases amoutation or total extirpation of the uterus was done after the casarean section because of an existing infection With the exception of 1 or 2 cases the uterus was opened in situ in the abdominal cavity. In spite of the unavoidable soiling of the abdominal cavity in these manifestly infected cases no signs of perito nitis developed In 21 cases there was a suspicion of infection. In 14 cases the virulence test was carried out previously so that the result was known at the time of operation but in others it was first made im mediately before the operation and the result de termined twenty four hours later. In all cases it showed the bacteria to be avirulent (marked reduc tion in the number of bacteria)

In r case the almost uncomplicated course after casarean section in the presence of severe infection was especially noteworthy. This was the case of a primipara at the end of pregnancs. Three days be fore the patient's admission to the hospital an in creasing swelling of the vulvæ extending to the anal region appeared with severe pain and repeated chills In the left labium the cocoanut sized swelling pre sented a necrotic area as farge as the palm of the hand An erysipelas like zone appeared in the ad Jacent regions extending up to above the symphysis and inguinal region and to the buttocks and the thighs The temperature was 37 degrees C and the pulse roo Extensive incisions were made and gas was found in the darkly discolored tissues Throughout this area and also in the inguinal region the tissue was discolored and did not bleed. There was no pus only a thin fluid secretion which con tained numerous gram positive and gram negative hacilli and streptococci The treatment consisted of drainage and the application of compresses of potas sium permanganate Shortly thereafter labor pains began The casarean section could be done only alter an incision above the umbilious | or the first fourteen days the postoperative course was afebrile. Then thrombosis developed. The greater part of the left labium was cast off The wounds cleared up in the course of a few weeks. An anal fistula which appeared at the lower angle of the wound on the right side near the perineum indicated an anal ab seess as the point of origin of the infection. The vir. ulence test revealed a marked reduction of the har molytic streptococci and anaerobic organisms

The author emphasizes that, except in this partic ular case the recently employed deep exsarcan section offered the best possibility for the limitation of an infection from the uterine incision. He repudiates the extraperational exsarcan section as the normal method on account of its complexity.

In cases of sewere infection the uterus must be scarnified after the crastrean section. The methods which make it possible to preserve the uterus in such cases (fistual of the uterus and abdominal wall and temporary exteriorization of the uterus according to Portes) are mentioned but not recommended.

Portes) are mentioned but not recommended The difficulty in infected cases is due to uncer tainty as to whether the infection is dangerous or slight The author believes that this can be deter mined only by means of the Ruge virulence test as modified by him In the fast two years he has carried out this test in all doubtful cases He maintains that the deep emsarean section with effective peritoniza tion can be performed without danger even in cases of manifest infection when the virulence test shows that the virufence is low. In cases of moderate infection the retrovesical exsarcan section with drainage into the vagina the extraperitoneal casarcan section delivery through a fistula of the uterus and abdominal wast or the operation of Portes comes up for consideration. In cases of high virulence amou tation or total extirpation of the uterus must be done

The value of the virulence test in exparan section is imported by the fact that the result is known only after tentily four hours. In cases of a more polyaler tentily four hours. In cases of a more polyaler when the necessity for crastrans section in the calculated period the result will be sufficiently be the calculated period the result will be affected by the calculated period the result will be of the control of the calculated period to the case may be considered in time of the period cases are the summa cannot be saved. However, (c) such cases are rare.

Horner D A Postcæsarean Bursting of Abdoml nal Wounds A Report of Three Cases J Am if his 1929 viii 1226

Spontaneous rupture of an abdominal incision may be partial resulting in postoperative herma or complete the abdomen being opened and its contents consistent of the property of the cases of complete wound separation following considera section

Case I was that of a their three year old primp are at term who was suffrang from acute bronching as them so was suffrang from acute bronching them are the suffrang from acute bronching them and marked cardinaction. Because of the d sparse cardiac exhaustions own in the suffrang a characteristic as a suffrange for a suffrange cardinaction as a suffrange for a suffrance of the suffrance of the suffrance for a suffrance for the suffrance for

that the moulded and flexed fetal bead must be re garded as being very nearly symmetrical about its long axis

If er gards the fetus as being propelled through the passage by a driving force from above and the passage as being practically circular in cross section at every point and having a band of almost a right angle at its lower end. The fetus is considered a double cylinder one half of which is formed by the head and the other half of which is formed by the head and the other half of which is formed by the head and the other half of which is formed by the can't be bent on the other with different facility in different directions. Fart of the driving force exerted on the fetus or cause. It to pass through the curved on the fetus or cause is to pass through the curved on the fetus or cause. These presented into creation uncould lateral forces. These presents forces which in turn are the cause of rotation.

Most has devised an ingenious model by which he is able to explain his theory and all possible positions of the fetus in relation to the pelvis

ABBAHAM A BRAUER M D

Kdrstad J The Treatment of Placenta Prævia at the Gynecological Clinic in Osio to the Period from 1997 to 1927 (Behandlung der Placenta praevia an der Frauenkinnik in Osio von 1907-1927) Arrik Hag Lagendenik 1929 nr 265

The period from 1007 to 1077 was chosen for this study because the claim being under the same direction, the principles of treatment were practically constant. In recent years the question of the advisability of casarean section in placents previate area or a The results of the operation were promising but crisarean section was not adopted as the standard procedure. A university diem being a teaching and procedure. A university diem being a teaching mands of practice. The ideal would be to treat all cases of placenta nevals in a hospital.

The material reviewed by the author included of cases of which p (so per cent) were those of pumpare. Central placents prawns occurred not there placents prawns occurred not there placents prawns are times, and a deeply in planted placents prawns (with hemorthage before habot) 135 times. The mortality was 4 per cent (17 deaths). The feet mortality was lagh off 30 de did not be a considered on the control of the control of

The type and time of treatment must be varied according to the severity of the bleeding In py cases the bleeding stopped spontaneously but in this group there were 2 deaths from hamourhage after

delivery. In placents pravia the pains are frequently un satisfactory. Pituitin often fails after artificial rupture of the membranes. The author cites the method of Willet, who recommends grasping the scalp with a vuiselium after rupture of the membranes in vertex presentations and pressing against the site of the bleeding placenta by continuous traction.

In the cases reviewed, Braxton Hicks version was done 131 times with 8 maternal deaths a mortality of 6 per cent. The fetal mortality was more than oo per cent. After metreury six the fetal mortality was 78 per cent. Markedly exsangunated patients should be given a transfusion of blood or saling solution be

fore being subjected to internention of an type. Cessarcan section was done; 32 times for placeta, pravia. One woman died twenty fixe days after de intery from embolsism. Two children died a feld mortality of 8 per cent but 1 of them was deadle fore the operation. Up to the present time the end cations for createran section have been. (1) is usual fection from the present of the center desired with a living and viathe died (2) marked a harmorphage from the beginning of marked a harmorphage from the beginning died and the died of the contract of the con

At the University Chine in Oolo, the variables reassection was carried out only a time for plactual prawn. The chief of the clinic is opposed to this precedure Portspartum humorinesse occurred in Only 5 pet cent of the cases of epicies placetia prawn is the last year, 3 cases of cervical placetia prawn are treated with good results but these cases are not reported in detail. The incidence of left after placetias prawns was about 30 per cent. The most dangerous indections developed after version.

SAENGER (G)

Skajaa K Cresarean Section in Infected Labors
(Kaiserschnitt hei infinierten Geburten) tonk
Mot Laterydenik 2020 nr. 249

Since 1019 the deep intrapertoneal exastent set too has been the normal method at the University Gynecological Clinic at Oalo. The result has been spood that the indictions have been extended and the operation has been performed even in the which did not meet the demandant and the operation has been performed even in the which did not meet the demandant and care and done also in a few cases of manufest infection. For yours to the operation, the bacterian of the various to the operation the bacterian of the various to the operation of the bacterian of the various to the operation of the bacterian of the various control of low virtual control of the various to the operation of the various of the various

The author compares the results of the deep in traperstoreal ceasers as textu during the years yellow to 1938 at that Statement of the results of the classical to 1938 at that Statement of the three periods of the classical transition of the control of the period for 1938 at the classical ceasers are the transition as a done of times during this period with 27 death. Eight the deaths at the most were due to the operation to grave the cause of death was periodically so women who survived jo had an uncompared to the control of the wound. Thromboats and can be supported to the wound. Thromboats and can be control once 1 to 4 of the 5 cases there was supported to the control once 1 to 4 of the 5 cases that was the control once 1 to 4 of the 5 cases in a specifically and the periodical periodical control once 1 of the 5 cases in a specific of the other periodical periodica

PUERPERIUM AND ITS COMPLICATIONS

Polak J O and Clark C Puerperal Morbidity and Mortality J Am W lss , 1929 vem 1436

In a study of nearly 1,000 maternal deaths the author found that 58 per cent were caused by generally preventable conditions such as septicarmia toxamia and hamorrhage and that in 58 per cent of the fatal cases operative procedures had been carried out He classifies as morbid any case which shows an elevation in the temperature to 1004 degrees F at any time after the first thenty four hours during the patient's stay in the hospital Seventy five per cent of the morbidity in the chinics in and about New York is caused by infections of the breasts and upper respiratory and urinary tracts

There is evidence that nationts with a previous streptococcic infection immunize themselves to a considerable degree against subsequent streptococ ALBERT W HOLES M D

cic infection

NEWBORN

Noron Gaucheraud and Chavent Hamoperi cardium Following the Intracardiac Injection of Adrenalin in the Case of a Newhorn Infant (Hemopencarde consécutif à une injection d'adréau line intracardiaque chez un nouveau né) Bull Soc d obst et de gynée de Par 1929 tuil 563

The authors report an attempt to resuscitate a newborn miant by intracardiac injections of 1 1,000 adrenalin following spontaneous breech delivery aided by Mauriceau's maneuver. The heart tones were irregular and feeble and there were no respira-tory movements. Three injections of adrenalin of I cam of each were given into the heart after other measures had failed Death occurred two hours after hirth

Autopsy revealed intracranial hamorrhage and an extensive hamopericardium. The three injection sites were plainly visible-two on the surface of the left ventricle and one penetrating the coronary vessels

The authors comment on the paucity of authentic case reports of resuscitation of the newborn by the method described. They believe that puncture of the cardiac vessels offers grave possibilities and advise using only needles of the finest gauge HAROLD C MACK M D

MISCELLANEOUS

Jellett II The Future of Obstetrical Practice Lancet 1929 ccxvii 859

The art of midwifery has passed through many stages It may be assumed that originally women delivered themselves as do wild animals and with as little danger to themselves. Human life becoming more complicated and artificial, pre existing diseases became more frequent and mechanical complications of labor appeared more often To the ordinary risks were added the risks of blood infection intro

duced by those whose object it was to assist the past, interference with labor was limited and asensis was unknown, today interference is frequent and asepsis is occasional. In the future, if maternal mortality is to he brought to the minimum, inter ference must be avoided as far as possible and asenus must be positive

The art of midwifery has three aims to bring the mother safely through pregnancy labor, and the puerperium to insure the delivery of a healthy infant and finally to leave the mother in as normal a condition at the end of the puerpersum as she was at the beginning of the pregnancy The accomplish ment of these aims is dependent upon the obstetrical attendant the antenatal diagnosis and care and the environment

The chief essentials of the management of normal labor are asepsis and the avoidance of interference The specialist and the midwife are in a hetter posi tion to offer the proper care than the general practitioner whose contact with various infections and lack of sufficient time render it difficult for him to obtain asensis or give expectant treatment. Statis tics show that in Holland England Wales Aus tralia and New Zealand the maternal death rate from sepsis was from four to six times greater in cases attended by practitioners than in those at tended by midwives. The necessity for adequate training of medical practitioners in the prevention and treatment of obstetrical anomalies is ev dent Thoughtful antenatal diagnosis and care effective assistance in abnormal labor and sufficient post natal supervision are the particular responsibilities of the medical profession. A suitable environment is one which permits the labor to be carried out with the same degree of asepsis as that with which a surgical operation is performed

The author attributes the unduly high maternal mortabity to the conduct of normal labor by general practitioners which introduces unavoidably the factors of (1) haste unnecessary interference, and sepsis (2) insufficient medical education of hoth medical practitioners and midwives which in the former is responsible for insufficient skill to treat obstetrical disease and complications and in the latter for insufficient knowledge to diagnose patho forical conditions and appreciate the necessity for asepus (3) madequate antenatal diagnosis and care which may lead to unnecessary deaths from toxx mia sepsis hamorrhage and mechanical difficulties. and (4) unsuitable environment which leads to exogenous injection ALICE F MAXWELL M D

Holmes R W. Mussey R D and Adair F L. Maternal Mortality J Am M Ass, 1929 xcm 1410

In the Umted States puerperal infections stand first among the causes of maternal mortality Most of them are contact infections their source being a streptococcic infection of the upper respiratory tract of the obstetrician midwife, nurse or other attend

tion, following removal of the retention sutures, the entire wound parted exposing several coils of howel There was no shock The wound was sutured im mediately with through and through sill worm su tures, but six hours later following a violent cough ing spell, it re opened and tirine escaped from the abdomen (bladder rupture) Replacement of the distended bowel being rendered impossible by the patient s dyspnotic straining an artificial elastic ab dominal wall was constructed by covering the protruding mass with a rubber dam, the edges of which were sutured to the skin Perforations in the rubber permitted the escape of urine and other discharges On the sixth day when the rubber dam was re moved the coils of intestine were found covered by a fibrinous sac This sac eventually epithelialized The vesical fistula closed spontaneously. The patient was discharged on the twenty fifth day following the accident, with a large postoperative herma

Case 2 was that of a para m thirty five years of age who had a bicornate uterus. The patient s first child was stillborn and her second child died follow ing the induction of labor and version for transverse presentation. Two weeks before term in her third pregnancy she entered the hospital with the fetus in transverse presentation. The thy road was enlarged but no symptoms of hyperthy roids m were present The patient coughed frequently but the rales and cough ceased after a few days of rest in bed Laparo trachelotomy was performed under local an esthesia with closure of the peritoneum muscle fascia and fat with catgut and of the skin with silk. Immediate Is after the operation the cough returned Following the removal of statches on the tenth day a mass was seen at the lower end of the wound. The patient then had a violent coughing speil and the entire wound burst open with loops of intestine protruding through holes in the omentum. There was no shock or evidence of infection. Immediate closure was done under local anasthesia. It was discovered that several of the sutures had torn out of the fascial in cision. The omentum and intestines were easily replaced in the abdominal cavity and the wound was re united with silkworm figure of eight sniures and catgut sutures for the fascia. The wound healed by primary intention and the patient was di charged on the seventeenth day following the secondary repair

The third case was that of a thirty five vein old primpara in labor at terms who was suffering from neghritic tovering, decompensated aorite reguigitation albuminum; 2+ and a Bodol pressure of 200 systolic and 70 disastolic. As the head was finating after eight hours of moderately sever labor a labaro trachelotomy was done under local amandass. The abdomen was relied as the production of the control of the c

severe and continued coughing the institute were again forced through the wound. No trared etiging was found when the incision was prepared for see ondary closure and the wide apping of the wond made it impossible to bring the edges together by sutures. Half indic trubber tubing was find single sutures that find rubber tubing was find single sutures. Half indic trubber tubing was find single sutures trienting through the red in subsection surface extreming through the red in subsection to the subsection of the

charged thirty seven days later The frequency of hursting of the abdominal in cision after section varies in different clinica from o 2 to 2 per cent The healing of wounds is influenced by age ob-sity coincident disease the character and type of the closure the quality and quantity of the suture material, the degree of hemostasis and infective proce ses. The early ab orption of the cat gut in one of the cases reported may be explained on a physicochemical basis the toxemic condition cau ing a difference in the tissue puces whi his turn cau ed rapid and coroplete disintegration of the sa tures It is noteworthy that the three patients were poor surgical risks All were over thirty thre years of age and in all the pregnancy was complicated by such conditions as bronchial asthma coughing ob ity nephritic toxximia broken comp mation goiter and bronchitis Continued coughing may be a pre disposing factor in the production of dehiscence f he opened wound edges and exposed viscers in \$

for hour rate covered by a reliability fibrious of post associated with a fire flow of straw edoral transadate from the persistent control of the post soon valls of the general personal cavity agglutnates the lower omentum and retards wound edges and by contracting draw and retards wound edges and by contracting draw and retards and personal personal cavity and the personal personal retards the personal personal retards the p

obstruction may occur.

The breaking open of an abdominal neusion may be a most serious complications. Strangulations of the boned and omeration. When melection of the sound strangulation of the control of the sound of the control of the melection of the sound is the cause of or associated with the ropter is mortality is high. Statistics show that the deals rate in gym., cological laparitonnies with this compactation ranges from 30 to 15 per cent

Prophylars is an important element in the trest ment. The effect of the distention of pregange of the issues of the shotmant and must be considered. Stagering of the incasor and all must be considered the addoment so the addoment of the endoment of the interest of the place of the output of the place of the output of the place of the output of the importance of preceding those necessariant by all of interrupted and the sound of the output of the interpretation of the place of the output of the place of

GENITO-URINARY SURGERY

ADRENAL KIDNEY, AND URETER

Ferrer J C Renal Compression J Urd 1929

The author ha made very interesting models of the vascular supply of the kidney demonstrating changes in the va cularity of the organ under various

pathological conditions

He differentiates between renal compression and renal obstruction. Obstruction is caused by a block ing and may be subacute acute or chronic whereas compression is the effect of an external agent and is always chronic.

He concludes that the distention of the renal pelvis incident to prelography especially when the medium is left in a diseased pelvis may compress the venous flow in the kidney sufficiently to produce a back pressure resulting in temporary anuria Obstruction to the outllow of urine from the lower tract will also cause urinary states in the ternal pelvis

When he cases of obstruction the interpoler pressure reaches the exactal pressure the utered will to to protect the kidney by increasing its wave of contraction. However as this increasing force of the uterieral wave must end in lating the uterial wave must end in lating the uterial many in the poly will ultimate become stagant as eventually it will no longer be earned away with each uterial contraction. The kidney will then such uterial contraction the head of the will be and passive congestion due to venous compression by the distended pelvis will require.

In chronic prostatic hypertrophy there is begin ning true renal compression. Venous compression in the kidney is in direct proportion to the pressure exerted by the distended pelvs and calyers.

Renal compression results in destruction of kid bes tissue. In attophic hydronephross the renal compression is general whereas in the presence of thrors of the kidney, substance which compress the tenal parenchuma and in the presence of cysts of stones located in any region of the kidnes except the pslyss it is partial

Ligation of a renal papilly without ligation of the curter will bring about a dilatation of the tubules without producing pelvu, di tention. When Ferrier endeavoreft to ligate the superior major calvx and different persons tree completely with redshoot to the senous tree completely with redshoot to the renal tree from pressure excreted by the goal of the renal tree from pressure excreted by the goal and calvx without any definite distention in the superior pole

He draws the following conclusions
1 Renal compression when total is the result
of chronic renal obstruction

2 I artial renal compression the compression produced by tumors of one pole of the kidney or hy

stones in the kidney substance or incarcerated in a minor cally or even in one of the major callyces will not, per se produce true hydronephrosis

3 Bilateral hydronephrous will occur only when there is an obstruction in the lower urinary tract which causes back pressure on the pelvis. If a free collateral venous circulation is formed on or around the kidney capsule pressure atrophi will take place in the renal substance with the formation of an atrophic hydronephrous.

4 When atrophic hydronephrosis is once established the atrophy will always take the form and shape of the venous arches that surround the superior portion of each renal papills

I Synner Ritter M.D.

Beer E The Diagnosis and Treatment of Chronic
Renal Tuberculosis 1m J Surg 1020 vii 607

In real tuberculous the most characteristic symptoms are referable to the bludder-surgency frequency burning at the neck of the bladder of the company of the neck of the bladder of the pladder of the pladder of the pladder and plant with of without microscopic or gross hamaturia. Urotropin usually intrates the bladder and bladder armiglations aracle give relied. If improvement results it is only temporar. The patient is usually treated for months for subacute or chronic cystitis and the urologist in consulted only after such treatment has failed. In every, case of persistent py unia a search for tubercle battle should be made in smears and by gunes pig, and persistent bladder irritation should lead to the suspicion of renal tuberculous.

In some cases the condition simulates nephro lithiasis causing pain in the kidney which is of a rather colicky nature and sometimes is associated with bleeding. Roentigenography may reveal definite shadows resembling those of real stone

A third type of case presents a history suggestive of essential hamaturia or renal neoplasm with mas sive hleeding more or less discomfort or colicky pain in the region of the ureter, and marked hama

The fourth type is most confusing of all showing only an inexplicable pyuria without renal symptoms. A fifth type begins in the same way as the first

type hut its symptoms gradually subside either with or without treatment. This is the auto nephrectomy type

A sixth type simulates subacute or acute pyelo nephritis

In the seventh type the symptoms are those of permephic suppuration and tuberculosis is suspected until the persistent sinus following drainage demands nephrecomy when the kidney is found to be involved by fully developed tuberculosis

The authors emphasize the necessity of educating the laity regarding the dangers of abortion toxemua and infection and the importance of good care during pregnancy, labor and the purperium ALBERT W HOLMAN MD

Williams J W A Clinical and Anatomical De scription of a Naegele Pelvis Am J Obst & Gyncc 1029 xxiii 504

The author reports the case of a waman with a typical Naegele pelvs who had had as spontaneous labors and died after the operative delivery of a seventh child in the first three of the four labors which were conducted in a clinic the largest child weighed 5 one gm and had a haparetal diameter of the child children weighed to one in the child delivered in the fourth labor weighed 3 one and had a bipartetal diameter of 95 cm.

The woman walked without a limp lier abnormal bodily habitus was so slight as to escape detection by any but the acute observers. There was nothing in her history to indicate that she had at

any time suffered from inflammatory bone disease In the last labor the first stage lasted seventeen hours and the second stage two hours. After failure with forceps version was done. The patient was delivered at her home Several hours later she was so seriously ill with a rapid pulse and abdominal pain and distention that she was brought to the hospital Williams saw her shortly after her admission A diagnosis of traumatic rupture of the uterus with intra abdominal bleeding was made. Operation revealed a large quantity of free blood and a rupture of the uterus through the right and antenor portion of the fower segment Supravaginal hysterectomy was done The patient left the operating table in good condition, but broncho pneumonia developed on the second day after the operation and her temperature remained elevated until death occurred on the twen ty fifth day Autopsy disclosed tuberculous pneu monta and a minor infective process in the pelvic casity

The pelvis is described in detail E L Convert MD

E L CORVELL MD

Vander Veer J N Urological and Surgical Care of Nephrolithlasis Am J Surg, 19 9 vn 662

The author believes that probably 33 per cent of all persons with renal stone are hetter off without operation and will live longer if given medical treat ment He empha izes that the probability of death within a short period after operation must be hall anced against the destruction which occurs during medical treatment. This can be done only by care ful preliminary examinations over a variable period of time and by those accustomed to deal with such

It is comparatively easy to roentgenograph the stone and remove it surgically but in 25 per cent of cases of single stone recurrence develops in from one to ten years after nephrotomy or pelviotoms In twenty eight cases reviewed by the author which were not operated upon there have been no recur

rences to date up to fifteen years

The incidence of recurrence of stone in the Lidney following conservative operation is less than to per Many so called recurrences are stones over looked at the first operation. As there is a definite period of stone formation a high incidence of re currence may indicate that the patients were not completely past this period at the time of operation The incidence of subsequent recurrence in the remaining kidney following nephrectomy is so low (2 75 per cent) as to indicate that an anatomical factor was present in the affected kidney. The in cidence of recurrence is greater in eases of single stone than in those of multiple stones, and in those of small stones than in those of large stones It varies more according to the thoroughness of oper ation than according to the type of operation While pelviolithotomy is the method of choice the danger of subsequent hamorrhage following limited nephrolithotomy is slight Nephrolithotomy is indicated particularly in the presence of cortical degeneration adjacent to the stone. A definite group of eases presents a history of repeated stone forma tion at frequent intervals over a long period. The average interval between primary operation and stone recurrence is about two years Fluoroscopy is essential with every conservative operation as it reduces the incidence of recurrence below s per

The causes of stone formation include infection of the kidney by way of the blood stream from foct of injection in the teeth tonsils ears sinuses gall bladder or elsewhere physiological factors includ ing a poorly chosen diet faulty metabolism col-loidal changes combined with the formation of crystalloids electrolytic conditions in the unne and mechanical factors such as pressure from a tumor a gravid uterus abscesses adhesions a floating movable, misplaced or malformed kidney ureteral stricture and spasm or paralysis of a cally t due to local or systemic nerve involvement

The general surgeon is usually satisfied with removal of a calculus leaving too much so the physi cian in the future management of the case

urological surgeon seeks to keep the patient under observation until long after his services appear of use His after care tends toward the prevention of recurrence and he endeavors to search for primary causes previously undiagnosed or untreated and to determine whether they are due to congenital or acquired physiological causes LOUIS NELWELT M D

Autzmann A A Leukoplakla of the Renal Pelvis 1rch Sure 1929 VIX 871

Leukoplakia of the renal pelvis occurs rather infrequently. It is difficult to diagnose before oper ation

The author reports a case in which the pre operative diagnosis was pyonephrosis on the left side and the pathologist's report showed the condition to be chronic pronephrosis with pelvic leuko plakia

There are two principal theories regarding the cause of leukoplakia of the renal pelvis According to one the leukoplakia is a metaplasia or adaptation to or protection by cormineation against, a chronic arritative inflammatory environment. According to the other at as of congenital origin being due to misplaced embryonal cell rests from the primitive ectoderm ELMER HESS M D

Judd E S and Hand J R Carcinoma of the Renal Cortex with Factors Bearing on the Prognosis 1rck Int Med 1020 thy 746

An analysis was made of 367 cases in which opera tion was advised for carcinoma of the kidney. At tention is called to the fact that this series includes cases in which operation was performed in the period from January : 1901 to January : 1928 Three hun dred and thirty of the patients have been traced Although insufficient time has elapsed since the operations done in recent years to warrant definite conclusions concerning the postoperative course the authors believe that the general average of pre operative and postoperative data presents many features worthy of record

Sixty eight and thirty nine hundredths per cent of the patients were men. The average age of the entire group was fifty one and seventy six han dredths years The tumor involved the right side in 46 os per cent of the patients and the left side in \$3.40 per cent Hamaturia pain, and tumor were observed as the 3 cardinal features Harmaturia occurred as the first symptom in 43 86 per cent of the cases pain in 37 32 per cent and tumor in 13 62

Of the 283 patients subjected to nephrectomy who were traced 192 are dead after an average postopera tive life of twenty three and twenty six hundredths months There were 30 deaths in the hospital Amety-one patients are living and have lived thus far an average postoperative life of sixty and eighty eight hundredths months

Of 47 patients subjected to exploration alone 45

are dead after an average postoperative life of eight

Occasionally the patient's history or that of his family points to a urmary tract tuberculous There may be a definite family history of attacks of pleu riss or pulmonary tuberculosis joint or spine in volvement, cervical adenitis or chronic epididymitrs The persistent pyuria will then suggest tuberculosis The general health rarely suffers unless mixed infec tion with chills and fever develops. There may be a loss of weight from loss of eleep caused by noctura but as long as the disease is unliateral and massive hæmaturia does not occur the general health is not much impaired. When there is bilateral involve ment (from 10 to 20 per cent of the cases) lassa tude anoregia loss of weight pallor disturbances of renal excretion and protein metabolism and suburemia or uramia develop. The disease progresses slowly until death occurs within one or two years after the beginning of the bilateral involve ment, renal insufficiency, pulmonary tuberculosis, or miliary tuberculosis

Physical examination of the kidney is of little value. The involved kidney may be enlarged as pecially if it is excluded and by dronephrotic or pronephrotic but sometimes the healthy kidnes is larger Tenderness may be present but is usually negligible. Vaginal or rectal palpation may reveal

a thickened rigid ureter The diagnosis is made by cystoscopy and ureteral catheterization Tuberculosis is proved only by the presence of tubercle bacult but the bladder findings may be sufficient for a diagnosis of tuberculosis of the kidney even in the absence of a positive smear or guinea pig test. The cystoscopic picture of sec. ondary cystitis from renal tuberculosis varies. The earlier cases rarely show more than a hypermmia with or without rigidity of the ureteral orifice Later there may be hamorrhagic spots in the blad der mucosa and the ureteral meats may become more rigid and ordenatous. Tubercles appear as whitish yellow spots with a hyperxmic base which break down and form stregular sharply cut out ulcers with overhanging edges. Urctentis produces shortening of the ureter and retraction of the ureteral region The ureteral meats become sunken With secondary infection the bladder becomes contracted The lesions are most marked at the ureteral meatus of the affected side but may be present also on the opposite side even when the lidney is normal Rarely the anterior bladder wall is involved. In females ulcerations extend into the urethra and even to the external meatus Distention of the bladder may cause the ulcerated surfaces to bleed In advanced cases the passage of the ureteral cath eter is obstructed by a tuberculous stricture Such a stricture may result also in autonephrectomy The use of indigocarmine helps not only in the esti mation of renal function but also in the localization of the ortfices in badly diseased bladders. Early cases may show no disturbance of renal function but as the disease progresses the concentration of the dye diminishes and the time of its excretion is delay ed

Cystoscopic studies must be made very carefully to prevent contamination of specimens in tran it through the bladder or by reflux up the ureter The catheter should be plugged externally specimens should be collected when the bladder is empty, and only late collections should be used for smears and guinea pig inoculations. When these precautions are taken pyuria and tubercle bacilli almost in samably mean renal tuberculosis. When a catheter cannot be passed far enough to obtain satisfactory specimens reliance must be placed on the charac teristic bladder picture the strictured ureter and the presence of tubercle bacilly in the bladder unne with absence of our and tubercle bacilli in the unse of the other kidney. In some cases the unne from the other kidney may show evidences of toxic nephritis such as albumin and casts but the usually disappear following nephrectomy on the dis eased side in males prostatic tuberculosis miy produce a clinical picture similar to that of cystins of renal tuberculosis Exerrtory bacillums may be produced in this way

When the urme is full of pus the antiformin method may be necessary. The carbol fuchsin stain usually suffices to show the bacilli. The author stains both the Lidney and bladder specimens for control purposes Activating doses of tuberculus may be given to produce showers of the bacilly

especially when there is intrarenal exclusion Rocatgenography reveals either irregular opaque plaques or porous calcufied areas outlining the cal sees pelvis or ureter. Cystography especially il it shows fixation and deformity in and around the dis eased ureter is only corroborative evidence. If the diagnosis is possible without pyelography the latter should be avoided as it causes added fraums When required it shows one or more strictures in the ureter with dilatation between and hydronephrosis with excavation of one or more ragged cal) ces. The same call ceal disease may be seen however, with

non tuberculous disease Occasionally exploratory operation is necessary to decide whether one or both kidneys are tuber culous The thickened firm ureter confirms the

diagnosis

Nephrectomy with removal of the upper ureler is the operation of choice in chrome renal tubercu losis If the ureter is hadly stenosed and is dilated above the stricture, the operation of choice is an aseptic nephro ureterectomy through two incisions a lumbar incision for the kidney and a pararectus extraperitoneal incision for the lower wreter the kidne, and attached unopened ureter heing brought out through the lumbar wound The author believes that sinuses and tuberculosis of the wound are due to a traumatic bacillamia induced by the operator and that therefore gentleness in operating is essential to avoid squeezing tubercle bacilli into the circulation

The after treatment is important Even in cases without tuberculous for: it should include good food rest and hygienic surroundings

LOUIS NEUWELT MD

Vander Veer J N Urological and Surgical Care of Nephrolithiasis Am J Surg, 1929 va 662

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een and seventy eight hundredths months. Of the 2 who are living I has lived thus far a post operative life of eighteen and sevents eight hun dredths months Metastasis occurred in to cases and recurrence was reported in 5r cases. In the cases of involvement of the renal vein the immedi ate mortality was not appreciably different from that in cases without involvement of the renal vein but the number of patients who died postopera tively was much higher among those with involve ment of the renal year

Surgical approach through a posterior incision and removal of the upper portion of the ureter are important factors in nephrectomy for earcinoma of the

kidney

The value of the roentgen rays or radium or both as additional aids to surgery is difficult to estimate since irradiation was used only in cases in which the prognosis was poor namely cases with extensive involvement of the perirenal tissue in which it was believed that not all of the tumor tissue had been removed fa some of these cases treatment by roent gen ray was not always given under the supervision of physicians of the Clinic

Carcinomata of the renal cortex are extremely malignant and are often well advanced before they produce symptoms. Myeolar carcinomata or those showing less cellular differentiation are the most highly malignant whereas adenocarcinomata (or papillary adenocareinomata) are less malignant as judged from their clinical course. Better end results are dependent on earlier medical consultation by the patient after the onset of the initial symptom or sign The authors conclude that the end results as exemplified in the 106 cases in which the patients lived from three to twenty two and a half years justify the operation of nephrectomy for renal catcinoma

Bump W S and Crowe S M Uretero Ureteral Anastomosis Surg Gines & Obst 1929 alix

The authors report the results of uretero ureteral anastomosis in dogs. The operation was done to troperitoneally through a lumbar incision and was performed essentially by the McArthur method except that two fine catgut sutures passed through all layers of the ureter exterior to the bining were used to bring the ends of the ureter into apposition The catheter for drainage of the urine was a No 3 rubber urethral catheter which fitted the lumen of the ureter snugly. The catheter over which the preter was sutured was also fitted snugly in order that the full caliber of the ureter would be main tained The catheters were removed after from eight to fourteen days \ urmary fistula persisted for only a few days

Examination of the ureters of six dogs mineteen twenty two tharty one fifty six sixty four and two hundred and seventy days respectively after division and suture with exclusion of urine from the site of repair and with maintenance of the full caliber of the ureter showed that healing occurred

without narrowing or appreciable dilatation of the lumina with a minimal scar without change in the renal pelvis and without evidence of any consider able damage to the kidneys

THOMAS F FINEGAL M D

Coffey R G Belateral Submucous Transplanta tion of the Ureters into the Large Intestine by Tube Technique Clinical Report of Twenty Cases J 4m 3f 1ss 1929 xcm 1529

The author believes that bilateral submucous transplantation of the ureters into the large intestine by the tube technique has now been perfected and to applicable to all conditions in which it is necessary or advisable to dispense with the bladder as a reser voir for urine The indications include (1) exstrophy of the bladder (2) cases of incurable cancer of the bladder with a life expectancy of more than six months in which morphine or a palliative evstotomy is required (3) cases of inoperable carcinoma of the base of the bladder or prostate in which large doses of radium are required to justify a hope of cure (4) certain cases of early removable earcinoma in which fulguration and similar treatments are now used (5) cases of incurable tuberculosis of the bladder in which one kidney has been removed and the other remains free from tuberculosis (6) tuberculosis of the prostate and seminal vesicles with or without permeal fistulæ (7) incurable vesicovaginal fistulæ (8) extensive incurable multiple perineal fistula due to various causes (o) certain eases of painful contracted bladder resulting from infection or ulter ation and (10) severe traumatie injunes of the

Among the twenty eases reported by the author in which the operation was performed there were eight of cancer eight of exstrophy and the of suberculous of the bladder and two of incurable vesicovaginal fistula

In three hopeless eases of cancer of the bladder with metastases the operation was satisfactory for the relief of the bladder distress but death resulted from general metastasis eight months seventy five days and two hundred and ninety days after the operation. In all of these cases renal function seemed normal to the end In one case the metastases en croached on the bowel at a point above the implants tion At autopsy in this case the right kidney was found dilated and seriously injured but the left kidney was practically normal. The valve action was good. At autopsy in the case of the patient dying two hundred and mnety days after the opera tion the kidneys appeared practically normal on macroscopic examination but on microscopic exam mation the parenchyma was found badly injured The size of the right ureter which was dilated at the time of operation had decreased. The valve action was good

In a case of cancer which was hopeless because of the extent and duration of the lesion the bladler was destroyed the growth kept down locally and the patient rendered comfortable by a tremendous dose of radium. The blood picture is better today than when the operation was performed a year ago In two cases of cancer infiltrating the base of the bladder no remote metastases were discovered One of the patients took drugs to relieve the pain before the operation and still takes amidopyrine Since

the operation he has gained weight and the cancer is diminishing under radium treatment. The other patient has been relieved of the bladder distress and is gaining in health

One patient who was subjected to total cystectoms

a year ago is still well In a case of cancer of the base of the neck of the bladder 7 000 mgm hrs of radium treatment were given (4500 mgm hrs in the bladder and 2500

mgin his in the vagina) The patient is still in the

Of the patients with exstrophy of the bladder one died following the operation. Another was reported well two years after the operation but died of acute colitis at the end of two years and five months Five patients recovered and are now well and comfortable A patient who was subjected also to cystectomy is still in the hospital awaiting complete closure of the drainage wound before operation is performed for closure of the skin over the pubic arch. Her general condition is good

In both of the cases of tuberculosis of the bladder one kidney was removed and the suberculous bladder

was left. Both patients are now comfortable The two patients with incurable vesicovaginal

fistula are well Disquieting incidents experienced in these twenty cases were an abnormally high postoperative temper

ature chills pain in the kidney region and several

major accidents Abnormally high postoperative temperature was observed in seven cases. It was attributed in two cases to the lighting up of a pre existing prelitis in one case to pyelitis resulting from infection follow ing accidental puncture of the rectum with the sig mordoscope and in one case to retroperstoneal infection from a uteteral leak caused by excessive traction in the removal of a catheter. In three cases,

no cause could be determined Chills occurred in four cases In one case they were attributed to the intravenous administration of dextrose in one to leakage of the preter in the retro peritoneal space and in one to pre existing pyelitis which had been associated with chills before the operation. In one case they may have been due to either radium treatment or pyelitis

Pain in the kidney region occurred in five cases In three it developed at the time the catheters began to loosen and ceased after the catheters were removed. In one case it was probably due to prehits In another there were two left ureters with a double kidney pelvis in one of which pyelitis was apparent ly present at the time of operation

Major accidents occurred in five cases. In one case a sigmoidoscope was passed through the rectal wall carrying infection into the field. In another

sloughing of the right breast occurred after subjectoral infusion In the third too much traction was made on the urcteral catheter which had become blocked the anastomosis being thereby disturbed and a unnary fistula produced. In the fourth case the right ureteral catheter became blocked probably because of failure to introduce it past the psoas muscle In the fifth case intestinal obstruction was caused by an unrepaired break in the peritoneum over the left psoas muscle and after removal of the obstruction the pressure of the excostomy tube made an opening which resulted in local peritoritis and death

From these incidents the author draws the follow

ing conclusions

Traction on the catheters for the purpose of detaching them from the bowel should be avoided 2 The assistant who prepares and packs the bouel should be familiar with the use of the sig mordoscope

3 The ralying ureteral catheter should extend well above the psoas muscle probably to within a in of the kidney pelvis and possibly to the pelvis atself

4 When the catheters become blocked with mucus small blood clots and other debris they may usually be cleared by syringing with a 2 per cent boric acid solution. To avoid carrying infection upward the discharging ends of the catheters should be kept in bottles containing a 1 1 000 solution of mercuric chloride

5 To lessen the danger of incrustation in the lumen or at the eye of the catheter sodium biphos phate may be given

6 If a catheter is completely blocked for twenty. four hours nephrostomy or a high ureterostomy should be performed.

In case an unrepaired breach in the peritoneum is left an extra sheet of gutta percha laid over the space and extended outward with the quarantine may prevent intestinal obstruction

In mone of the cases reported was there any demonstrable evidence of serious postoperative kidney infection or peritonitis such as not infre quently occurred after the former two stage sub mucous transplantation without tubes. When the useter a firmly tied to the catheter above the rubber cuff with a ligature and the ends of the catheters drain into a 1 1 000 mercuric chloride solution there so no possibility for infection to enter the ureter or Lidney directly After the rectum has been 1,0 ated with a clamp cleansed with solution and dried with gauze and after the incision in the wall has been made between traction loops a quarantine complete ly segregating and draining the operative area eliminates peritonitis

In none of the twenty cases was there any demon strable evidence of permanent injury to the kidneys which could be attributed definitely to the operation In each of the two cases in which autopsy specimens were examined the right kidney showed marked degeneration However as the cancer was located in the right side of the bladder, myolved the ureteral opening and produced marked dilatation of the ureter above at the time of the operation as there was extensive enlargement of the lymphatic glands along the course of the right ureter at the time of operation and as, at autopsy the ureter was found to he in a bed of metastatic cancerous tissue it may be presumed that the kidney was already damaged and unless operation had been performed it would have been involved even more senously The observations in these two cases suggest that the surgeon s first duty after opening the abdomen and before packing off the mtestines is to palpate both kidneys carefully and make a record of their condition

The average time clapsing from the beginning of the first incision to the tying of the last suture in the twenty cases was two hours and fourteen min utes divided approximately as follows twenty two minutes for opening of the abdomen and preparation of the rectum twenty two minutes for closure and application of the dressings and one hour and thirty minutes for the double transplantation. In the last ten cases the average clapsed time was one hour and fifty nine minutes. The time required for trans planting a single ureter is about thirty minutes less

After the intestines have been packed out of the field the manipulations are delicate and shockless requiring minimal anasthesia. There should be no serious shock associated with the operation Therefore accuracy is the chief desideratum While the technique is far more exacting the inherent danger is less than that of such major abdominal operations as subtotal gastrectomy for cancer of the stomach or the main operation in radical removal of the rectum for cancer. The total elapsed time is about the same in the three operations

In the twenty cases reported there was one surgical

death a mortality of 5 per cent TRAVERS C STEPITA M D

BLADDER URETHRA AND PENIS

Wilhelm S F Perforation of the Bladder During Costoscopic Examination J Ural 1929 xxu

5.5 The author reports one perforation of the bladder during cystoscopic examinations occurring on his own service and two such perforations occurring oo

the services of colleagues

In the first case the patient was examined under nitrous oride oxygen anæsthesia Vomiting occurred and was followed by a general spastre contraction which raised the buttocks off the table A few drops of blood passed from the cystoscope and the instru ment was immediately withdrawn Page m the lower part of the abdomen and the perioeum was followed by shock Catheterization withdrew a few drops of blood Of 300 c cm of borne solution intro duced into the bladder only 150 ccm were recovered. Signs of intraperitoneal fluid were present Operation revealed free fluid in the peritoneal cavity

and fluid in the retroperitoneal and penyescal tissues There was no intrapentoneal perforation On the anterolateral wall of the bladder an extrapen toneal opening was found which opened into the space of Retzius Autopsy thirteen days later showed tuberculosis of the right kidney peritoneum prostate seminal vesicles and lungs

The perforation in the second case also occurred during cystoscopic examination made under nitrous oxide oxygen anasthesia. A stone had formed at the site of a tumor which had been removed by operation The symptoms were similar to those in the first case The perforation was found on the posterior wall of the bladder Postoperative recovery was oneventful

The third perforation was into the rectum and oc curred at examination under local anesthesia A retention catheter was used. Constipation was in

duced The perforation healed without operation Sudden pain shock harmaturia burning inability to boid and the sensation of tearing are very sug

gestive of perforation of the bladder

In the diagnosis the injection of a sterile solution fluoroscopy with an opaque solution fluoroscopy with gas or air and cystoscopy may be harmful The diagnosis should therefore be based on the clinical

The differential diagnosis between intrapentoneal and extraperitoneal perforation is impossible as the symptoms are nearly the same. The pentoneum

should be opened for inspection of the hladder The mortality has decreased since 1892 The pronosia depends upon the general condition the type of perforation and the time at which operation is

CLAUDE D PICKRELL MD performed Submucoua Cystitis J bref Donohue P F TO20 TIL 465

Submucous cystitis may be due to chronic cystitis or to an embolic hematogenous bacterial infection from a distant focus as suggested by Hunner

Io both types the submucous areolar tissue is re placed hy a densely infiltrated structure which in advanced cases may involve the muscle and per-

ve ical tissue In the Hunner type the mucosa may be unchanged except for a small area of hyperzenia Forced distention may split the scar, causing submucous ham orrhage The mucosa may be involved in the trauma Lesions so produced may be single or multiple small or large They are not found to the trigone In an advanced case the bladder becomes small thick and unvielding

In cases of submucous cystitis resulting from chronie cystitis the diagnosis is not difficult. The history is important A complete urological study will reveal the primary cause The cystitis is usually most marked in the trigone If the primary cause has been eliminated the mucosa may appear normal ex cept for areas of puckering and thick pale patches of light absorbing epithelium. These cases are resistant to treatment

In the second class of cases the histor, is very suggestive. The urgency does not come in attacks or colors but is constant. Sharp pain in the suprapulae area is present if the desire is not gratified. The urine appears clear but usually contains a fees put and red blood cells. Over distention which may cause harmorrhage may give temporary refiel.

In early cases the submicous lesion may be very small, but cartul searth will show a fine stellate puckering with mild injection of the micosa. Delto the control of the bladder will cause sub microsis bleeding due to tearing of the incluster sub microsis sear. Changes in the microsa may be caused by trauma from distention of the bladder resulting from resistance to the desire to void. In advanced cases, these areas may not reveal the true extent of the submicross areas moved.

The author reports two cases illustrative of sub mucous cystitis secondary to infection of the upper urinary tract and four cases of submucous cystitis of

the Ifunner type

In three of the latter there was a definate or suggestive history of a distant focus mannely, car buncle cellularis of the nose and tonsul micetion. In the fourth the focus was undetermined The last case was a borderlum case between the two types. Two lesions were in the value of the bladder and the others supeared on the lateral wall. The amounts, there cases favorable results were obtained from a combination of over distention and electrocospy latton.

Blane If Fatty Calculi of the Bfadder Oleoliths and Medicamentous Calculi (Des calculs grass ceux de la vessie oléoliths et calculs médicamen teux) J d uroi méd et chir 1929 xxviii 318

The author discusses a group of fatty calculi quite different from the urostealiths which are of endoge nous origin As they are oily he calls them oleo liths to indicate their origin. They are produced by the action of any basic solution on any oils or fatty body introduced into the bladder for thera peutic purposes or by the simple decomposition of such an oily liquid in a bladder with incomplete retention. In the former case a soap is produced which forms a soft concretion that becomes encrusted with calcium salts. Concretions of this type are generally caused by gomenolized oil or silver nitrate. In the second case the oil being lighter than the urine remains in the bladder on urmation and becomes a floating foreign body capable of forming soany bodies on which ammonium magnesium phosphate is deposited. Within a calculus of this type there is a nodule of soap formed by the decomposed oil

As stagnation in the bladder favors the production of olecultis such stones are generally found in patients with prostatic disease unmary stricture or spinal disease. Accordingly medicinal oils should not be injected in cases of complete or incomplete retention or when the bladder is indected or alkaline or if given should be left in the bladder oily a short.

time and then completely removed by irrigation. For the same reason care must be everysed in the use of paraffin cystoscopy. After this procedure the paraffin mass be washed out thoroughly. Care is necessary also in the use of medicinal urethral pen cits. Such pench should not be given to the patient to introduce. They are often more or less fusible and sometimes the exceptent employed in their manufacture is paraffin instead of cacao butter. Vesical calculul may regult also from the use of silver salts.

It may be possible to dissolve eleciths with bern and or spid to melt them with safer at a tempera ture of 50 degrees P or to render them sufficiently hard to be grasped with the lightorptor by irrigating the hisdeler with boric acid solution at a temperature of 37 degrees P it all of these methods fail they must be removed by surgical operation in the same way as other vescal stones.

AUDREY C MORGAN M D

Paschkis R The Non Specific Chronic Ulcers of the Bladder (Die nichtspezifischen chronischen Geschwuere der Blase) Verhandl d dentich (es f Urol 1929 p. 133

There are differences of opinion as to the nomen clature of non specific ulcers of the bladder since especially by American Writers the same disease picture is designated by different names such as elusive ulcer punctate ulcer "paracysitis" "paracysitis.

irritated bladder, and contracted bladder" on the basis of some particularly prominent sign or symptom Histological study has revealed nothing definite as to the differentiation of simple ulcer there is always a non characteristic chronic inflam mation of varying extent and localization author is especially opposed to the term 'elusive which is applied by American writers to changes that are localized predominantly in the sub mucosa He states that there is no fundamental difference between the parench; matous cystitis of Natze and the clusive ulcer of Hunner In both le sions there is the same non specific chronic inflam mation which appears at one time predominantly in the mucous membrane and at another time chiefly as a submucous infiltration. The diagnosis can be made only by exclusion. Tuberculosis and syphilis must be ruled out first A characteristic sign of sim ple ulcer, which occurs most frequently in women is the unchanged appearance of the rest of the mucous membrane Another significant feature is the disproportion between the slight objective finding and the generally very severe subjective symptoms the chromicity of the ulcer and the resistance of the lesson to all methods of treatment

The treatment should be conservative With sufficient patience it usually results in permanent recovery Good results are achieved with oil treat ment (collargol gomenol) of the bladder For restant cases electrocoagulation is recommended

sistant cases electrocoagulation is recommended.

In the discussion of this report Braascii stated that the closure ulcer develops from a circumscribed focus of infection in the bladder wall and involves.

predominantly the submucosa. In contrast to simple ulcer the involvement of the mucosa as secondary. On cystoscopic examination the picture a normal artist except for a few red spots. A typical finding is sensitiveness of the bladder on overdistention and when the slightly reddened areas are touched with the cystoscope. The cause of the condition is between the slightly reddened areas are touched with the cystoscope. The cause of the condition is between the prediction of the condition is the total condition of the condition of

NEGRE said that most of the disease pictures discussed must be considered due to the same causes As the ulcer usually forms after the auhosdence of diffuse signs of intration and the spontaneous heal ing of multiple ulcers the term ulcerature cystitis is preferable even though the mucous membrane shows barely any inflammatory changes in the later

stages

SUTER reported that the histological examination
of an excised ulcer which had existed for twenty
years revealed only degenerative changes in the
blood vessels Accordingly it cannot be claimed

that the disease is of an inflammatory nature in all

Leaveroning stated that the callons silver and the unlers at the mouth of the urter are not tracely variations at ages in a verce arishabitive traponits. Even though these ulera cannot be definited with the simple uler a relationship between the to disease pictures cannot be deuted. Practionis reported a case in which circumscribed eviolative foo of infammation at times assumed a pronounced ulera time character. In one resistant case, irrigations with pressople proved of value.

JACONY said that a diagnosis of simple ulcer should always be preceded by very careful clinical and roentgenological examinations as often aside from

lues and tuberculosis various causes (adnexa prostate etc.) underlie the condition

FREUDENBERG recommended assente therapy. In the cases of two female patients with clusive ulcer he obtained a good result with intragluteal injections of solarson RUBRITUS stated that in his opinion the simple

ulcer should be differentiated from the clusive ulcer Corrain (Z)

Macaipine J B Papilloma of the Bladder Brit

The author believes that all papillemata of the bladder i left to themselves have a tendency to become malignant atthough there is a period of tree is considerable difference of opinion among patholisms as to the diagnoss in sections made from these tunors. Tumors regarded by pathologists as some the tunors. Tumors regarded by pathologists as sample have frequently recurred as malignant growths.

Macalpine has seen two tumors in the same blad der, one of which was apparently beingn and the

other malignant

The diagnosis of papilloma of the bladder is made of course by means of the cystoscope. As it depends entirely upon the expenence of the operator and as the treatment is extremely important and depends entirely upon the opinion of the examining urologist the outcome is problematical.

The author watches these tumors ver, carefully descacates them first and depends entirely upon the results, under close observation, to determine whether the meplasm is malignated to non malignant. He believes that a tumor which dissippears under disatheriny through the cystosope is probably non malignant unners. This method of course has its disadvantages because it is possible that the tumor may become interpretable while it is being watched However, if it does not recede promptly. Macalques does not delay in adopting open operature treatment for ercommends existography to assertain the use of the tumor and the degree of involvement of the

bladder wall He finds that bladder tumors are frequent in persons who work in the dye industries. The most common situation of papillomata is near the vesical orifice Occasionally papillomata in this region are secondary to papillomata of the upper unnary passages The treatment is diathermy and open operation The operation performed by Macalpine is hased on Squier's technique. In this procedure gauze dissection of the lateral aspects of the bladder is done and the peritoneum is stripped off the fundus. The dissection may be continued down until the prostate and seminal vesicles are exposed. The bladder is not opened until it is well freed. The neoplasm is removed with a generous area of the bladder wall If necessary a portion of the ureter is sacri ficed and the ureter implanted into the bladder at another location The latter procedure carnes with

it a much higher ammediate mortality. The raw surfaces are protected with tetras and awabs socked in a r r coo solution of silver nitrate and the wound is sponged out with a r r coo solution of silver intrate and go per cent resortin or alcohol.

In Macaphue's experience papillomati arising high on the bladder wall run a very benga course while those at or near the ureters or internal sphine ter are much more apt to be malignant.

In conclusion the author says that cases of pain less hæmorrhage from the bladder should be subjected to immediate cystoscopic examination.

Fixer Hess M D

Beer E Total Cystectomy and Partial Prostatec tomy for Infiltrating Carcinoma of the Neck of the Bladder tan Surg 1929 xc 864

In cases of infiltrating carcinoma of the neck of the bladder the author has found the most favorable treatment to be total exstections and partial prosta tections with implantation of the ureters into the

skin of the iliac fossæ performed in one stage

He reports eight cases treated by total cystectomy
with one operative death. The one death occurred

in the hospital ten days after the operation from ny elonenhritis due to the implantation of the ureters into the sigmoid Of the seven patients who sur vived one lived for five years one for nine months and one who had a leiomy osarcoma for more than two months Four are still alive Of these one was operated upon four years ago one a year and a half ago one seven months ago and one six months ago

In conclusion Beer states that the mortality of extraperitoneal removal of the bladder with the adjacent prostate is not prohibitive and that the opera tion can be done with the implantation of the ureters into the skin in one stage without undue risk to the integrity of the kidneys. In spite of the inconven ience of an apparatus for coffection of the urine the nationts are rendered fairly comfortable and able to get about and even to work Even though the local metastases will probably result in death the opera tion is justified by the temporary comfort

I EDWIN LIBARATRICK MD

GENITAL ORGANS

Haendel M. The Physiology of the Testicle (Con inbuciones a la fisiologia (esticular) in Fac de med Univ de Montevideo 10 o ziv rozo

Experiments were earried out on dogs and rabbits to determine the relation of the function of the testicle to the body weight the basal metabolism the blood pressure and the composition of the blood The protocols of the experiments are given

Ligation of the exerctory duets of the testicle wa done according to the method of Boin Ancel and Steinach It caused an increase in weight which con tinued after castration. This increase after vaso ligation was brought about by a general good con dition and improvement in the appetite and the function of the organs. In rabbits, the basal metab olism increased is ner cent after vasoligation and was lowered by castration. Glycamia generally decreased after vasoligation but in two animals the decrease was preceded by a period of hyperch camia The blood pressure fell after vasoligation but some times showed a slight increase immediately after the ligation. In some of the dogs the ligation caused an increase in the erythrocytes and hamoglobin of the blood AUDREY G MORGAN M D

Bevan A D The Operation for Undescended Testls Ann Surg 1929 xc 847

The author describes his operation for unde scended testis which was first reported in 1800 After more extensive use and only shight modifica tions of the procedure during the past thirty years he concludes that this method which is based upon simple clear definite anatomical physiological and surgical principles has given results which warrant its general adoption

Undescended testicle occurs in about i of soo males. However there is a not infrequent condition. of undescended testicle in which the scrotum is very rudimentary and empty and the testicles can be

felt sust beneath the skin above the scrotum such cases the testules can be pushed down into the scrotum by gentle pressure. As the child grows the testicles grow and assume a normal position in the scrotum giving the impression that unde scended testicles have come down in the period of Operation is contra indicated in these puberty cases

The operation for undescended testicle should be performed at an early age within the first three or four years because the structures are then more phable the testicle can be brought down without tension as the cord is more easily lengthened the blood supply is more easily safeguarded and if the testis is left in the abdominal cavity it will not develop

The author emphasizes that in his operation the spermatic vessels are divided only in very rare cases and that the pursestring suture which is placed at the neck of the scrotum does not sur round the cord but lies in front of it leaving

ample room for the cord behind it

The details of the operation are described fully In order to lengthen the cord sufficiently to place the testicle in the scrotum without tension. Bevan first frees the peritoneal vaginal process from the cord facilitating the dissection by injecting normal saline solution under the peritoneum to lift it from the cord and then divides the tiny fascial bands along the was and the vessels so as to leave only the vas and vessels intact By this procedure the cord is lengthened several inches J I DWIN LIREPATRICE MID

MISCELLANEOUS

Bragonas E G The Mechanism of Certain Cases of Recention of Urine (Étude sur le mécanisme de quelques cas de rétention d'urine) J d'urol méd el chir 1929 XEVIII 341

The author believes that many cases of retention of unne are caused by physiological phenomena exaggerated in one direction or another there is no pathological reflex. In support of this theory he estes the cases of retention in which after prostated tomy the patient is able to unnate vigorously Before the operation in such cases the bladder was not paralyzed atrophied or degenerated and had not permanently lost its contractility because of a mechanical obstacle it had simply been in a condituon of mertia it had been inhibited and as soon as the prostate was removed it regained its normal function

This inhibition is a process by which an act in the course of development is arrested or suppressed by an opposite influence There is a normal recip rocal genitovesical inhibition and rectovesical in hibition Urmation and ejaculation cannot take place at the same time nor can unnation and defar cation These are normal physiological phenomena

which have no relation to the function of the testicles or prostate but depend solely on innervation

Chronic constipation, hypertrophy of the prostate. hydatid cysts of the pelvis massage of the prostate. retroversion of the uterus, and various causes may bring about retention of urine simply through irrita tion acting on the sympathetic parasympathetic or cerebrospinal nerves. Jaboulay makes use of this principle in his treatment of essential incontinence of urine which consists in the injection of artificial serum into the retrorectal space. He says that it partially inhibits the bladder through the sensory fibers of the rectum AUDIEY G MORGEN M D

Waring T P Can Solid Material by Reflux or Antiperist ilsis Enter the Pelvis of the Aldney from the Bladder? J Urol 1929 XXII 541

The author reports a case proving that a foreign body may reach the pelvis of the kidney from the

bladder by antiperistalsis Fourteen months prior to coming for examination the patient a male had introduced a piece of grass into the urethra for sexual excitation and had been unable to extract it. On several previous occasions he had used beans straw, or grass. The symptoms for which he sought treatment were pain in the right upper quadrant of the abdomen and the right costs

vertebral region fever nausea and vomiting His temperature was 100 degrees F The unne was alkaline and contained pus and blood. The white cell count was 16 800 with or per cent poly

morphonuclears

Cystoscopic examination revealed redness about the right ureteral onfice. In the unne from the right kidney there was a faint trace of indigocarmine and the phenologiphonohthalem return after fifteen minutes was 35 per cent. In the urine from the left kidney there was moderate coloration with indigocarmine and the phenolsulphonphthalein te turn was 180 per cent. The urine from the right kidnes vielded staphylococcus aureus on culture and showed pus in clumps on microscopic examina tion. The urine from the left kidney yielded no bac ternal growth on culture and was free from pus

I ray examination revealed an irregular line in the recion of the right kidney suggesting a calculus Ureterography showed the right ureter to be dilated and irregular. The pelvis of the right kidney did not

appear abnormal

By means of pyelolithotomy the author removed from the right kidney a calculus 25 cm long and 0 2 cm in diameter which consisted of a calcium and phosphatic deposit on a piece of seed bearing grass Several days after the operation another piece of grass 1 cm long was drained out on the

dressing

Waring cites the experimental work of Graves and Davidoff proving the occurrence of regumita tion of unne from the bladder into the pelvis of the Since according to Gruber the unne in the bladder is alkaline in most cases of cystitis the author concludes that reverse peristalsis might easily be provoked by the entrance of the alkaline I SYDNEY RITTER M.D. urme into the ureter

Cumming R E and Nelson R. J Actinomycosis of the Urlnary Tract Surg Ganer & Obst 1929 thx 352

The authors review briefly nine cases of actinomyrosis primary in the kidney which have been recorded in the literature and report two cases of

Actinomy cosis is a parasitic disease which in cattle is known as lumpy jaw. It frequently attacks the urmary tract of man but as a rule the involvement of the kidney and ureter i secon lary When the process is apparently confined to the kid ney permephritic abscess to likely to occur The authors have been unable to find any record of involvement of the bladder

The disease is recognized by the discovery of the typical granules (ray fungi) in the urine pus or tissues The clinical course physical findings and urological evidence suggest renal tuberculosi or renal tumor Anamia is an important sign The diagnosis is rarely made before operation. The history often establishes the possibility of actionmy costs as contact with diseased animals (especially cattle) can be ascertained.

The prognosis is very grave since in eases with secondary involvement the disease is so widespread as usually to be fatal, and when the kidney is in volved primarily it is usually well advanced when treatment is begun

In cases of primary involvement of the kidney nephrectomy is the best procedure when applicable Year treatment and the use of potassium todide and copper sulphate are recommended but are only adjuncts to surgical drainage and removal of the THOMAS F FINTGER M D affected organ

Goldstein A E and Abeshouse B S Prevesical Perivesical and Periprostatie Suppurations Review of the Literature and a Report of Cases Sure Gruce & Obst 1929 xlix 4/7

This article discusses particularly the develop ment of infection in the various spaces about the bladder and prostate after operation. The authors give first a brief description of the anatomy and topog raphy of the aponeuroses and the spaces they enclose

ANATOMY AND TOPOGRAPHY The petric fascia The pelvic fascia is made up of a parietal and a visceral layer The parietal portion is continuous with the psoas and iliac fascia and attached to the promontory of the sacrum and the thopectmeal line. As it passes down over the posterior pelvic wall it covers the pyriforms mucles and the sacral and pudendal plexuses Laterally, it covers the obturator internus At the white line of the fascia it divides into two layers. The more external layer is the obturator fascia which forms the outer wall of the achiorectal fossa. The inner wall of the ischiorectal fossa is lined by the ischiorec tal fascia a part of the parietal layer of the pelvic fascia The obturator fascia is continuous across the anterior part of the pelvic outlet with the corresponding fascia of the opposite side and forms the deep layer of the triangular ligament

The inner or visceral layer, sometimes described as the "rectowercal racia,") is a continuation of the policy fasts. It is a membranous disphragm separating the pelvic cavity above from the perineum below. It passes downward and inward nin the upper surface of the levator an intucks and then over the surface of the prostate, seminal vesicles, bladder, and rectum

In recent years the term rectovesical fascia has been restricted to the portion of the fascia between the rectum and bladder which encloses the seminal

In the posterior part of the pelvis the visceral layer of the pelvic fascia is pierced by the rectum and reflected upon the rectum as the rectal or prerec

Is the visceral layer passes inward from the white line on either side it covers the posterior surface of the hidder and at the base and sides of the bladder turns upward to form the lateral true legaments of the bladder. At the junctious the segments of prosister tightin into the vessel and the passes to the lateral true legament of the passes to the other of which passes downsard over the prostate, forming the anterior lateral and posterior peripositate fasters. At the apec of the prostate the prostate fasters are the prostate that the passes layer of the triangular ligament and is continued forward as two bands the anterior true legaments of the bladder.

The true capsule of the prostate is a shromuscular membrane which surrounds the entire gland except at its hase and apex where the unether spectres the gland. It is continuous on its internal appect the gland is continuous on its internal appect that the fibromuscular stroma of the gland and on its cuternal aspect with the fibromuscular issues that unter the perspostant capsule with the perspostant sheather or aponeurous son dithe cellular spaces has the live and integrity of this capsule hum the extension of supportative processes within the shand on of supportative processes within the shand.

The prostate is closely surrounded on all sides hy fascial sheaths. On the basis of their anatomical relation to the prostate these have been classified by Acersena as (1) the anterior perspectate aponeur coss or fascia. (2) the lateral perspectative aponeur coss or fascia. (3) the posterior perspectative aponeur coss or fascia (3) the posterior perspectative aponeur coss or fascia and (4) the median aponeurosis (part of the triangular Ingament).

The onterior perspectatic factor. This facts: which carries the names of Demonstlier Tacker-handl and Delhet extends from the anterior surface of the hidder to the lower border of the posterior surface of the pubs. Laterally it blends with the aponeum ses of the level root and and posteriorly it fises with the prevescal fascia of Charpy. Its width is scarcely more than; cre

The lateral perspressive fascs The lateral perspressive fasca also known as the puborectal fasca of Denonvillier? is rather intimately connected to the prostate by loose connective tissue. It is

essentially an extension of the fastan of the levator man and is composed of a horizontal and a vertical portion continuous with each other. The horizontal portion blends below with the superficial lay of of the transplar ligament and above is continuous with the inferior border of the levator am muscle. The vertical portion is almost quadriateral and extends from the safe of the lateral and extends of the lateral portion is almost quadriateral and extends from the safe of the lateral in a literal from the vateral performance of the lateral in the lateral

The posteror periprolate fascia. This fascia described by Denonviller as the 'prostatopentoneal fascia' and now commonly known as the 'fiscia of Denosviller' covers the posterior portion of the prostate seminal vesicles, and bladder. Posteriorly, it fascs with the subjectioned its will be missed to the control of the prostate that the the missed of the control of the prostate control of the prostate that the the missed of the prostate control of the prostate that pust below the apex of the prostate Laterally, it blends with the fascial elongations of the levator any and fascia rects. It is a firm dense sheath which is the skets in the middine and is composed of an anterior and a posterior layer. The anterior layer is the thicket and the more resistant of the two

The median fascia f he median fascia represents the inferior layer of the triangular ligament the stronger and more resistant of the two layers of which the triangular ligament is composed

These fascal sheaths on the upper lower and lateral spects of the protate is and can lateral spects of the protate gind melote a potent tail quadrangular space about the protate which designated by the French as later protation. The intralascal spaces are in front the salettor per protative space and behind the posterior perposative space and behind the posterior perspiration space in the extra appointment of the protection of the protection of the protection of the space of Retzus kitrally the superior pelvirectal space and behind the posterior extraprostate space or presental space.

The anterior pre entied space. This space is commonly called the space of Return and is the most frequent site of localized postoperative infections it is bounded anteriorly by the symphis is public and the anterior layer of the transversalis fascial posteroirly by the posterior layer of the transversalis fascian above by fusion of the two layers of the transver salis fascian at the semiliant fold of Douglab below, by the anterior persposative fascia, and that entitly, by fusion of the two layers of the transver salis fascia with the apponenties of the transver salis fascia with the apponenties of the transver salis made oblique muscles.

The space called by Aversenq the anterior pen vesical space is essentially a continuation of the anterior pen prostatic space

ETIOLOGY

The causes of postoperative perivesical and periprostatie infections may be divided into two groups

 exacerbations after operation of an old pre exist ing lesion of the bladder prostate seminal vesicles or urethra and (2) the introduction of an infecting agent at the time of operation or during the post operative course

Chronic cystitis is usually accompanied by peri vesical infiltration of varying degree often known as chronic sclerosing pericystitis ' In old cases of prostatic retention the chronic infection of residual urine which lies dormant may flare up following instrumentation Other possible causes of perivesical suppuration are vesical calculi, foreign bodies pilcers tumors diverticula, and tuberculosis. In old cases of retention repeated instrumentation with resulting trauma is attended with the danger of causing a false passage or tear in the urethral wall which provides an excellent portal of entry for the pathorenic organisms found in the bladder and urethra in such cases An abscess may exist within the hypertrophied prostate unrecognized until the bladder or prostate is opened for the removal of the prostate believed to be enlarged. Such an abscess may rupture spon. tancously into the posterior wrethra or it may break through the prostnitic capsule giving rise to a periprostatic cellulitis If the cellulitis is confined to the Posterior Demorostatic space it may form a firm mass which may be conjused with an enlarged prostate

TYPES OF INFECTION

Mild postoperative perivesical and periprostatic suppurations occur within a relatively short time after operation and are usually due to flooding of the prevesical space with infective material at the time of operation or to undequate dramage after opera tion The severe type of inflammation is of insidious onset occurring after the suprapubic wound has closed or when a small clean healing fistula is present Signs of infection about the wound are absent but the patient is toxic suffers from fever which is often accompanied by this is easily fatigued, loses weight and appetite appears anxious and if the sepsis persists later becomes prostrate Pain is a con stantsymptom It may be in the suprapubic or bladder region or may be referred to the perineum Bladder and gastro-intestinal symptoms with nausea and vomiting may develop This type of infection u ually leads to fatal septicamia

PATHWAY OF INFECTION

The possible routes by which localized lesions may be spread into the tissues surrounding the operative field are (1) by direct extension by cel lular infiltration, (2) by way of the lymphatics and (2) by way of the blood stream

Direct extersion Direct extension occurs as the result of flooding of the space of Retzius with in fected unne at the time of operation or as the result of madequate dramage of this area and the bladder after operation Prolonged stasis of urine in the space of Retzius may lead to inflammatory lesions varying from mild suppuration to extensive abscess formation with necrosis and gangrene of the tissues

Lymphitic route The rôle of the lymphatics in the propagation of inflammation about the prostate and bladder following operation is most important The lymphatic drainage determines the ultimate destination or direction of such infections. In the region of the neck of the bladder there is a nch anas tomosis of the lymphatics of the vas deferens with those of the prostate posterior urethra and bladder The ureter has an abundant network of lymphatics in its muscularis and external fibrous sheath. The lymphatics of the kidney are abundant and surround the tubules and glomeruli There is a close relation between the lymphatic supply of the genito-unnary system but there is no anastomosis between the lymphatics of the genito unnary organs and the rectum

Blood stream There is no clinical evidence to show that infection is carried from one part of the urogenital tract to another by direct vascular con nections

RELATION OF OPERATIVE PROCEOURE TO INTECTION The nature of the infection introduced at or follow ing operation varies with the type of operation per formed Opening a bladder which is distended with urine or has been filled with fluid hefore operation increases the danger of infection about the base of the bladder. The likelihood of the development of cellulitis appears to be greater after a suprapubic prostatectomy than after a simple cistotom; on account of the greater trauma produced by the former operation Infection after prostatectom) is favored also by the dead space created by the re moval of the enlarged prostate This space is con stantly filled with stagnant and infected urine sad unless it is well drained constitutes an excellent nidus for the growth of pathogenic organisms. The danger of periprostatic or perivesical infection following perineal prostatectomy appears to be more theoretical than actual as in this operation adequate dramage is provided. In cases in which partial or complete excision of the bladder is done the floor or base of the bladder is usually involved and the accumulation of infected urine in the operative area is likely to set up a diffuse relightis prostatic or perivesical suppurations may develop also after instrumentation of the urethra the in sertion of retention catheters into the bladder a punch or cutting operation at the neck of the bladder and operation for prostatic abscess with incomplete dramage

LOCALIZATION OF INFLAUMATORY PROCESS

The site of localized suppuration following opera tions on the bladder and prostate depends on the origin of the infection and its avenue and manner of pread The localization of suppurations around the prostate is closely related to the anatomical relations of the prostate and its surrounding cellular spaces The micro-organisms usually found in penvesical and periprostatic infections are the staphylococcus streptococcus and colon baculfus

Inflammatory collections about the prostate and the base of the bladder are essentially of three types (1) intrafascial, occurring in any one of the various spaces between the prostatic capsule and the differ ent penprostatic fasciæ (2) extrafascial, occurring in the spaces external to the periprostatie fascial planes and (3) distant suppurations, the result of extension of the inflammation by way of the blood stream or lymphatics or by direct continuity from the focus of infection in the operative area. The condition varies from a localized abscess within the fascial spaces about the prostate and hladder in a diffuse cellulitis in the extrafascial planes. Lesions. of the latter type are essentially phlegmons which may spread to distant regions (kidney thigh groun, or perineum) and point more or less to an abscess

Initializated infections. The development of an inflammatory leason in the anterior perspossative space is relatively rare as the anterior lobe of the prostate is addomn the site of infection. However, an infection of the space of Returns may spread down infection of the space of Returns may spread down a student of the space of Returns may spread down a student of the space of Returns may spread down and the space of the space of Returns may be student of the space of the space of Returns may be specified by the space of the space

Extrafacial sufficient Suppuration within the anterior extraprostate space the space of Retrus, is the most frequent local complexation following operations on the binder and prostate by the supparable crute. It should properly be called an absers public route. It should properly be called an absers or phlegmon of the space of Retrains and not a peripencistitis. As a result of infection in this area, the public bone may be involved and undergo necessary Occasionally, an infectious process in the space of Retrain sepands poorly to treatment or is neglected in which case a hypogastric or shopelvic infiltration develops.

The hard extrapostatic space is commonly detected as the appear polyvered space and correspond to the whole lateral surface of prostate. While this space is seddom the site of pimary postoperative infection it frequently represents the fusion place of supurations extending from the space of Retruis the antenor or posteromy spaces. The dargnoss of supurations within this space is confirmed by a palpable mass involving the lateral and upper surfaces of the prostate and lateral and upper surfaces of the prostate and

semmal vesicles
suppurations within the postenor extraprostate
suppurations within the postenor extraprostate
space are of frequent occurrence before and after
poration because of the tendency of the suppura
tions of the prostate and seminal vesicles ta spread
into the posterior periprostate space and then to
pierce the fiscal of Denonvillier into the prevental
pace. These infections tend to open into the rectum
and become clinically cured but in some cases they
may point lower down as an isotopicctal abserts or

may spread upward under the peritoneum, forming a retroperitoneal suppuration Distant supportations Anteriorly, infections within

the space of Retzius may spread over the entire abdominal wall involving the hypogastric, the inguinal, or the lumbar region but are amenable to treatment

Laterally, suppurative lessons about the bed of the prostate or the posterior wrether develop as the result of infection in the dead space of the prostate bed after removal of the gland. The infection spreads to the superior pelvirectal space and thence into losse subperitioneal space extending in all directions.

Posteriori, suppurations within the penprostatic space may extend up to the retrovesical region in an upward or lateral direction under the pentioneum II the pentioneum is pierced a true pelvic pentionitis results. Retroprostatic and retrovesical suppurations may become walled off and traverse the prerectal space to empty into the rectum

In most of the types of postoperative micetom described the spread of the infection is by extension along Issual planes but occasionally the development of a subpersioneal abscess of the hypograticulate, inguinal lumbar or kidney regions is depend out upon a by implatic extension. There is also the possibility of extension along the length of an organizariesm and infected area such as the vas defension and the ureter, the infection being carried by the hypogratical program of the continuous describing the c

PREVENTION AND TREATMENT OF POSTOPERATIVE INFECTIONS

Essential to a well planned and well executed suprapubic cystotomy and prostatectomy are good exposure and proper incision of the bladder and careful closure of the suprapubic wound with ade quate drainage. In the stripping of the peritoneum from the bladder great care should be taken in order to avoid the formation of a retropubic dead space and unnecessary trauma to the neck of the bladder As a landmark for the lower limit of exposure of the hladder the superior horder of the pubic bone should be used. In a simple cystotomy the incision should not be carried too far down toward the neck of the bladder and as a rule should not be longer than a cm Flooding of the operative field at the time the bladder is apened must be prevented by careful packing off of the prevesical space or the introduction nf a cannula with or without suction before the bladder is appened. In the closure of the abdominal wound adequate dramage of the space of Retzius must be provided. This drainage is best obtained by introducing a gauze wick at the lower end of the wound and closing the incision around it loosely The suprapulac tube should be brought out at the upper end of the bladder incision

Even when these pre operative precautions are taken there may occasionally develop signs of in fection in the various areas about the bladder and

prostate When such signs are noted, treatment should not be delayed. The prevesical space should be drained immediately by opening and irrigating the lower angle of the incision Occasionally at may be necessary to resort to permeal dramage. When a suprapubic prostatectomy has been done the bed of the prostate may be the focus of injection. When this is the case the drainage should be of the type used in the typical perineal approach to the prostate One or more drains should be passed through an opening in the prostatic capsule into the bladder and the bed of the prostate. In cases of secondary suppurations developing at sites remote from the bladder the primary focus of infection must be found and eradicated before the secondary suppurations can be relieved. Therefore the prevesical space should be re opened and thoroughly explored for evidences of retropuble infection

CLAUDE D HOLMES M D

Chabanier II Lobo Onell C Lebert M and Lelu E Water and Solt Diuresis (Contribution à l'étude des diurèse aqueuse et saline) J d'urol

meli e chu 1929 xxwl 359
The nuthors review Amband x work and the threshold conception of the chimanation of unrany substanting. In their experiments details of which are given in tables they found there was always a change in the p¹⁸ councident. With a rapid change in water diurens. Johjura is accompanied by a change of p¹⁸ in the alkaline direction whereas in sudden destease of water diurens is accompanied by a change of p¹⁸ in the alkaline direction whereas in sudden destease of water diurens is accompanied with a change in the add direction. However while has sudden change in water diurens is a companied by a change of p¹⁸ in the urine a change of p⁸ does not necessarily cause a change in diurens a certain a change of particular control of the con

degree of change in pⁿ fasting for a certain period of time. Staining tests have shown that the reaction in the renal cells is the reverse of that in the

where these fasts and a further companes of water duriess and duriest acused to nepal baselus and other substances the authors conclude that the conception of change in the robust of a sudden there in the isso electrical points \(^1\) sudden there in the isso electrical points \(^1\) sudden there in the isso electrical points of the albumns of the tubules foward a low \(^0\) results in a deschage of actions through the turne with releasint of almost in color of the most important amous Cl. The axis contained in the futube cell suffuse to the fooment causing an increase in the acid of the capital submiss which plants about an increase in the sometic mans which, brings about an increase in the sometic

tension of the cells of the capsule and polyuna Therefore what has been called mobility of the threshold is only the reverse of the mobility of the Lo efectrical point of an albumin To say that a substance has a certain threshold of excietion is to say that a value of the iso-electrical point of the albumin which eliminates it has been reached at which this albumin begins to take up the substance in appreciable quantities. Accordingly in place of the abstract notion of the threshold we have a con crete and measurable property of albumia namely its iso-electrical point. The thre hold is a property of the kidney and not of the substance excreted nevertheless it must still be expressed by comparing the amount of the substance in the blood with that eliminated in the utilie

The authors conclude also from their work that the behavior of the CI threshold in edema is only secondary factor in the pathogeness of that cond tion Aldrew G Monday MD

SURGERY OF THE BONES, JOINTS, MUSCLES, TENDONS

CONDITIONS OF THE BONES, JOINTS, MUSCLES, TENDONS, ETC

llume J B The Causation of Multiple Exostoses Bril J Surg 1929 XVII 235

Multiple exo toses occur in both seves ub ects are usually of less than normal statute because of deficient gm wth of the long bones Cer tain bones such as the carpus tarsus vertebre ster num, and skull, are never affected The condition is often hereditary although a history of inheritance is not always obtainable It has a definite association with multiple enchondromata, but a definite asso ciation with rickets has not been established

The mo t common types of multiple exostoses are the globular or cauliflower shaped projections applaning at the extremities of the long bones. The projections may also take the form of clongated spikes in which case they are always directed away from the epiphysis Not infrequently, they occur near secondary centers of ossitication such as the gluteal ridge of the femur and the vertebral border of the scapula

Up to the twentieth year of age multiple growths are usually covered by a thin layer of cartilage The cancellous bone underlying the surface cartilage is excessively spongy and fragile and in the roent genogram shows definitely irregular trabeculation

The evostoses are most numerous and best marked in the areas where normally the greatest gmwth of the bone takes place as in the upper end of the tihia and the lower end of the femur

With regard to the cause of these bone formations the author says 'It is clear that such a com plicated condition as multiple exostoses cannot be produced by a mere failure in tubulation or by a vascular disturbance but that as Keith originally suspected the cause must he in the abnormal be havior of the cells of the growth disk and the con sequent failure of the subperiosteal bone formation to keep pace with it 'In abnormal stimulus affect ing the center of the disk alone and interfering with the process of ossification would produce an en chondroma one affecting a localized portion of the periphery a single pedunculated exostosis while a more general stimulus affecting the growth disks of all the long bones would produce multiple exostoses FREDERICK A TOOTES M D

Phemister D B Chronic Fibrous Osteomyelitis Ann Surg 1929 re 756

Chronic fibrous osteomy elitis is a term which may be applied to any long standing pyogenic in fection of bone in which the reaction on the part of the fibroblasts in contrast to the infiltrative cells is the outstanding feature of the lesson This may be

the end stage of acute pyogenic osteomyelitis in which suppuration necrosis, absorption, and cavity formation have occurred As repair takes place the cavity may be filled with fibroblastic tissue showing varying degrees of maturation. In some cases such an area of chronic fibrous osteomy elitis may remain symptomless for an indefinite period In others it may produce mild disturbances or may be the site of acute exacerbations. There is usually more or less osteosclerosis with the formation of a bony shell about it Gradual replacement by hæmatoposetic and fatty marrow may ultimately come about

In contrast to this condition there is a form of osteomyelitis pursuing a chronic course from the onset in which a circumscribed area of bone is broken down by fibroblistic activity and the space is filled up with soft tissue. This lesion deserves special consideration since, by the time it comes to operation it is devoid of the usual microscopic changes of py ogenic infection and bears considerable semblance to benign giant cell tumor and osteitis

fibrosa cystica

Phemister has studied eleven cases of the last type narricularly from the pathological standpoint The findings in this condition vary greatly according to the age of the lesion In cases which a prerated upon during the first few months while the disease is progressive the cavity is found filled with a soft tissue varying from grayish to brown, consisting microscopically of fibroblasts, capillaries, poly blasts giant cells old hamorrhage and blood pig ment and usually showing more or less necrosis Cholesterol shits are sometimes seen There is prac tically no leucocytic or lymphocytic infiltration The response on the part of the surrounding bone is extremely variable. In some instances little or no bone is laid down while in others there is marked new bone formation

The author concludes that these lesions are produced by organisms of low virulence belonging to the progenic group but not setting up the usual cytological reaction of pyogenic inflammation

H EARLE CONWELL M D

Counce C L Experimental Sarcoma of Bone Arch Surg 1020 XIX 704

A spontaneous transmissible endothelioma of the chicken was introduced into the marrow cavity of the tibia of the chicken to cause the formation if possible of a tumor similar to that described by Ewing as an endothelial myeloma and in order that the development and manner of growth of such a tumor might be watched The resultant neo plasm resembled in some respects both the endo thelioma and the osteogenic sarcoma seen in man

Lake the endotheloma, it occupied a large part of the shaft and was osteolyte multi had presented by way of the nutrient foramen or through the cortical species to the subprensed apace. While it was confined between the personnel man the cortex the tumor cells formed radiating species of bone. In a similar experiment the Rous fibroar coma also formed bone beneath the personsteam

Fully two thirds of the course of the tumor had been run before the neoplism became patchle or visible in the roentgenogram although it was present in all of the bones examined on the fourth day. By the twently second day, the chickens had died with widespread metastanes. Two died of a metas tasse before the tumor could be demonstrated by pushquint or the recategorary.

It is shown that under certain physical and chemical conditions both endothelial (or reticular) cells and fibroblasts are capable of differentiating into osteoblasts

FREDERICS 4 TOSTES MD

Fitchet S M. Cleidocranial Dysostosis Hered itary and Familial J. Bone & Joint Surg. 1929 xi 838

The author reviews the hterature on eleidocranial

dysostosis and reports seven cases

The features of the condition as originally described by Marie and Sainton are (1) more or less roarked aplasia of the clavicles (2) exaggerated transverse diametee of the eranium (3) delay in the ossification of the fontanelles and (4) hereditary transmission. The literature reports cases which showed the

cleidocranual dysostosis but no hereditary relation

Garrahan and Schinelly reported four cases in one family. One of the subjects was the father. One of the children had a positive Wassermann reaction.

Dentition is frequently disturbed. According to Hultkrantz all parts of the cranium are involved to the deformity, but the most characteristic finding ts the disturbance of the suture formation in the vault of the cramum. The individual bones may fail to unite and the fontanelles may remain open base of the skull shows incomplete ossification of the symphyses and a reduction of the longitudinal diam The facial skeleton may also be affected. The individual bones are smaller than usual The nasal and lachry mal bones are either absent or only very slightly developed The accessory cavities are nar row or practically absent. The palate is high and narrow The teeth break through the gums late and show faulty implantation or defective toating of enamel

Jansen attributed the condition to pressure of the ammotic fluid on the embry oduc to small size of the ammon. He stated that a large anterior fontanelle complete or partial absence of the clavicles short ening of the toes and bilateral flattening of the clest are common to all cases.

Marie and Sainton stated that the disease had never been known to run for more than two gener ations, but McCurdy and Baer reported mine cases occurring in three generations. There seems to be no variation in the basal metabolic rate or the mitabolism of calcium or phosphorus.

Nothing definite is known as to the cause. The condition occurs with equal frequency in males and lemales and may be transmitted by either the father of the mother to either sons or daughters. Europlais no part in its causation or transmission. As a rule there is little if any pain or disability demanding treatment.

Swaim L. T., and Kuhns J. G. The Prevention of Deformities in Chronic Arthritis. 1. The Upper Extremity. J. Am. M. Au., 1929. Sci., 1811.

The deformittes following chrone arthritis are more senous than any other feature of the disease. The essentials in their prevention are (1) minedial attention to the joint to prevent deformity, is soon as the diagnosis of arthritis is made (2) the pice extona at all times of positions leading to deformates (2) well controlled application of heat to the joint and exercise of the joint (4) motion encouraged and every forced, in all stages of the disease and (4) in the processing of the position of the joint in the desired position when the position of the joint in the desired position when the position of the joint in the desired position when the position of the joint in the desired position when the position of the joint in the desired position when the position is the position of the joint in the desired position when the position of the joint in the desired position when the position of the joint in the desired position when the position is the position of the joint in the desired position when the position of the joint in the desired position when the position of the joint in the desired position when the position of the joint in the desired position when the position of the joint in the desired position when the position is the position of the joint in the position of the joint in the desired position when the position is the position of the joint in t

Deformity of the shoulder can be lessened by placing the patient s hands under his bread with the flered elbon's stretched out on the bed. This can be done several times a day unders the arthur of the shoulder is too acute in which care flowers that the shoulder is too acute in which care full control to the shoulder is too acute in which care flowers are the stream for station. The same position can be attended to the same time of the same tim

The eibness frequently moshed an arbitin. The first symptom is pain on full estension of full flesion. The usual deformity is a position of flecton with mard rotation and promation of the arm and hand at might the arm should be kept in full estension is a plaster gatter and during the day full use of lot eibness should be encouraged. A staff close when the face that is a first flesion of the contract of the face that is a first flesion or extension are reach the face that is a first flesion or extension are indicated no convolences. Vanipulation of the lows usually does more harm than good. The usual deformity of the wint and hand as one.

not usual outcommitty to the which the hand and ulars devastion of the finger. The only prevented best by the use of a metal or and be prevented best by the use of a metal or and to be worn especially at any procedure of about 10 procedures of the world to the world to

Deformities of the fingers are very serious. They can be presented by an extension of the cock up spins to hold the fingers in flexion or extension as may be indicated. Exercise during the day with temporary splitting is better than constant immobilization. Occupational therapy should be start edas soon as the sorieness of the fingers has decreased sufficiently to portnit it.

Muscle weakness and atrophy are common in arthents. They are due to disuse deformittes, and stiffness resulting from inflammation. The lack of muscular tone in women at the menopause is helped by glandular therapy. The most important treat ment of weak flabby muscles is carefully controlled exercising well within the fatigue limit.

CHESTER C GTY VI D

SURGERY OF THE BONES, JOINTS MUSCLES, TENDONS, ETC

Sorrel E The Indications for and Results of Ostcosynthesis in the Treatment of Potts Disease (Indications et résultats des ostcosynthèses dans le traitement du mal de Pott) J de chir 1929, xxxv, 439

There are two reasons who it is hard to determine the value of osteosynthesis in 1041s disease. The first is that the disease vanes so greatly in severity that unless the surgeon is shie to follow up a large number of patients for a long time his judgment will depend upon whether his cases happened to be mild or severe. The second is that it is still rather uncertain whether the operation has merely the pallia twe mechanical effect of immobilizing the diseased spind column or a highorical cutative extron

In the cases of children the operation is generally not indicated as a cure can usually be effected by non operative treatment. The operation is at least unnecessary and might interfere with future growth In the cases of adults osteosynthesis represents a true advance in the treatment of Pott's disease. The contra indications are serious tuherculous lesions in other parts of the body a too pronounced mbbus and poor condition of the skin Some surreons are of the opinion that, in the absence of these contraindications the operation should be performed as soon as the diagnosis is made, while others believe that mechanical orthopedic and general treatment should be given until the lesion is reduced to a quiescent condition in which the chances for a suctessful result are better

There are two chief methods of ostcosynthesas, that of Albee in which a graif from the patient's that of its sued and that of litbbs in which small almella are cut from the laming of the vertebra and turned up and down to form a solid column of bone doing the action of the spinnous processes and the processes the spinnous processes and the processes themselves are then broken so that they like a spinner each other, forming another column of bone spinner each other, forming another column of bone spinner each other former and more complicated than the Albee Parties of the supplyed mixel less frequently.

In the last ten years the author has performed obteosynthesis in many cases of Pott's disease and has re examined or received reports regarding roo patients. The result was excited in 106, good in 21, methoder in 9 and poor in 16. Sorrel concludes that a procedure which enables, 65 per cent of persons with Pott's disease to lead an absolutely normal life some of them dong very hard work), 19 per cent to lead an almost normal life with only slight precautions, and 84 per cent to work a part of the time is by far the best method of treating Pott's disease an adults.

Authory Of Monach MD

FRACTURES AND DISLOCATIONS

Boland F K Gas Gangrene in Compound Frac tures Ann Surg 1929 xc 603

The complication of compound fractures by gas gangeren en civil hie is more frequent than is gen eraily, realized In colored patients treated at the Emory University Division of the Grady Hospital Allania in the penod from 1922 to 1929 its in cidence was 19 per cent and in white persons treated in the same hospital during the same period its incidence was 7 per cent.

Gas gangrene occurs in wounds of the lower extremities more frequently than in those of the upper extremities, probably because of the proximity of the lower extremities to soil infection and because of the relative tightness of the muscles about the tihas as compared with the muscles of the forearm Woolen goods probably harbor the micro organisms as frequently as soil

The symptoms of the disease are variable. Fre quently the first symptom is a rise in the pulse rate to from it to to zo. The temperature is variable. The leucocyte count is usually hetween 15 000 and 20 000. The patient may complain that the dressing is to the patient may complain that the dressing is to the patient may complain that the dressing is to the patient may complain that the dressing is the patient may complain that the dressing is the patient may be sufficient to the patient may

Boland advises that compound fractures be put up in appearatus which allows frequent inspection of the wound and that smears and cultures be made from the wound Wide debndement with excasion of all damaged tissue should be done. Of the different types of after treatment Boland has found the Currel Dakin technique to give the best found the Currel Dakin technique to give the best found the Currel Dakin technique to give the best found the Currel Dakin technique to give the best found to the disease trather planned of specific actions of the disease trather planned fractures and cycle, all patients with compound fractures and cycle, all patients with compound fractures and distinct to technique the compound of the disease of the compound of the disease of the disease of the distinct of the disease of the di

Fifteen cases are reported
FREDERICK A JOSTES M.D.

Boehler L The Treatment of Fractures of the Os Calcis (Behandlung der Fersenbenbrucche) Chir urg 1929 1, 733

The usual crush fracture of the os calcis is caused by a vertical force acting on the foot from above The weight of the falling body is transmitted to the sating allow the astragalise. The body of the astragalise is more solid than the os callors and is protected by the thian and fibility, particularly on the external aspect where the external malleolise covers the cuneform process of the astragalise. The latter is forced into the spongost of the os calcies and separates its lateral portion. The posterior joint surface of the os calcies is usually split obliquely from its in a state of the control of the control of the ost calcies is usually split obliquely from its more control of the control of th

In the treatment advocated by the author, the calcancal shortening is corrected by extension with a nail or pin in the longitudinal aus of the calcances and the broadening of the bone is corrected by lateral compression with a screw press. To fix the corrected position a plaster of Paris banding as applied while the bone is under extension. Depending upon the under extension. Depending upon the used for from these to as it week. At the end of that time the plaster of I aris bandage and the nail are removed and a new plaster of I aris cast suitable for walking is applied for from nine to fourteen weeks if the end is removed too soon the extragalus will again main, into the still soft spongos of the calcance and turberoity will again be forced unward.

forces upward

By this method of treatment the author has oh
tained good functional results. After from three to
six months the patients were able to return to their

In the last three years Bochler has seen fifty three fresh and forty one old calcaneal fractures. Twelve were bilateral. Barely 10 per cent had been diag nosed before the patients admission to the boquil. An important aid in the diagnosis is the apple tween the joint and the tuberosity. Between a big joint plant and the tuberosity. Between a big joint plant a further and a line passing through the posterior yount surface and a line passing through the posterior yount surface and a line passing through the normally an angle of from 210 as degrees. Life time of the calcaneus this angle is decreased or dis appears because of the electron of the calcaneus therefore the properties of the calcaneus of the literal troopting organism is importing particularly in the diagnosis of loff institutes. To determine the dispussion of loff institutes. To determine the of value of value.

ORTHOPEDICS IN GENERAL

Blount W P Hodglin's Disease An Orthopedic Froblem J Bone & Joint Surg., 1929 21, 61

Blount states that skeletal involvement in Blog. In sidessee as much more common than has been realized in cases in which the bones has been case tilly studied hyperplasa and degeneration of the bone marrow have been found. Penositis and even tumors have occasionally been reported as secondary manifestations of the disease. Percentage of the secondary manifestations of the disease.

rise to a transverse myelius. The author reports a case in which involvement of the spine and left shoulder preceded generalized impossible dulargement by two pers. Diagno es of tuberculosis and of malagnant tumor were made the true nature of the disease not being reveiled until autopsy was performed. The report is supplemented by roentgenograms and photomicrographs. Dep\(\text{Lay} \) therapy was of considerable benefit in the
case and in so some of the cases reported in the litera.

SURGERY OF THE BLOOD AND LYMPH SYSTEMS

BLOOD VESSELS

Van Allen C M and Hrdina L S Air Embolism from the Pulmonary Vein A Clinical and Experimental Study Arch Surg 1929 xx 567

Air embolism from the pulmonary vem may complicate surgical procedure on the lung. As the venous pressure in the pulmonary circulation is condainaly less than that of the atmosphere air will be drawn into the circulation when a pulmonary ven is opened A sharp distinction must be made between the embolism resulting in such cases and the embolism resulting in such cases and the embolism resulting in such cases and the embolism in which are interest a peripheral ven such as the jugular or subdavian. In the former cuts of the process of the such as the puglate of subdavian in the former cuts of the pulmonary afterns and everts is passes into the pulmonary afterns and everts is effects on the lesser circulation and the right side of

the heart

The exact distribution in the vascular tree of the air received into the pulmonary yeins was studied by the authors in dogs under varied conditions of dosage and body position. It was found that air entering the circulation by way of the pulmonary vein followed the course of the blood stream in general but with uneven distribution. Instead of being divided among the vessels in amounts accord ing to the sizes of the vessels it tended to float on the blood and to seek the upper parts of the body Even when the stream was rapid the air and blood failed to mix thoroughly. Sometimes the air remained stationary in a bend of the vessel and sometimes it passed in the direction opposite to that of the blood Accordingly there were marked variations in the distribution of the air in different positions of the When the dog was in the vertical position with the head up the head neck and forelegs received all of the air except a slight amount in the coronaries When the head was down the trunk and hind legs received the air and the coronaries were heavily involved. In the dorsal recumbent position in which the arch of the aorta was higher than the descending portion of that vessel and acted as a trap to hold a large part of the air more than half of the air was distributed to the head and forelegs while the rest went to the coronaues and the ressels of the ventral part of the body

In man the symptoms of air embolism from the upulmonary vian are of two types neurosuscular and cardovascular depending upon the position of the body. In the vertical position with the head up the neuromuscular type predominates. In the same the cardiovascular type. In the complement of the cardiovascular type. In the complement of the cardiovascular type. In the complement of the body types are present. The faith effects are due to both types are present. The faith effects are due to both types are present.

coronary arteries of cerebraf and medullary function by blockage of the vessels of the brain and of blood circulation by blockage of the pulmonary arteries. The last condition is not frequent

Aside from the symptoms the diagnosis may be made from the initial elevation of the blood pression and air bleeding i.e., the presence of air bubbles in the blood obtained by making a stab wound in the most elevated part of the body

The prognosis depends on the size of the embolus,

seventy of the symptoms and time interval. The occurrence of air embosism from an external fistalla of the pulmonary vein may be prevented by postive pressure breathing and the injection of epinephrin or ephedrin but the protection lasts only while the blood pressure remains above certain levels. Spontaneous embolism from a bronchovenous statula may be prevented by the intravenous in section of epinephrin or ephedrin and by bronchical statulary and the protection of epinephrin or ephedrin and by bronchical statulary and the protection with the body in the head down position. Cardiorespiratory stimulants have no effect.

Colt G II Pain as a Guiding Symptom in the In jection Treatment of Varicose Veina Bril W J 1929 11 848

The author draws attention to the phenomenon of scondary panu-delayed panu-following the injection of varicose veins with sodium salicylate-spine solutions. The pain begins about twenty seconds alter the first few drops of the solution enter the vein reaches its maximum in about study seconds and subsides usually completely in two or three minutes. This sin contrast to the pain which may occur immediately after the injection is begun and indicates pensions extravolution.

By noting the seventy and distribution of the pain at may be possible to prophery with considerable accuracy the extent of the endowentis which will follow. Using pain as a guide it is possible to distribute the imjected solution over a considerable distance by elevating the limb or placing it in a horizontal or dependent position. The pain decreases in sevently as the fluid in its passage becomes more dibite. Wherever pain is fell selerosing changes merivalably follow, and where pain is not felt it is uncommon for more than a local thrombosis to occur.

Anderson W and Gray J Report of a Case of Ancurism of the Spienic Artery with Refer ences to Fifty Eight Cases Collected by the Authors Brit J Surf 1929 Xvii 267

The case reported was that of a woman forty nine years of age who died in collapse following an agonamp, abdomnal pain. Autopsy revealed a saccular aneumon of the splenic artery with an opening into the esser pentioneal cavity. The special particles of the splenic artery and a special particle are special particles and the special particles are special particles. The saccion are special particles are special particles are special particles are special particles. The special particles are special particles are special particles are specially always and evidence of atheroma, generatized arterial disease or symbils but the findings suggested that the underlying condition was a subsection effection.

In the fifty-eight cases collected by the authors the symptoms varied from those suggesting peptic ulcer or carronom of the stomach to those suggest ing ruptured tubal pregnancy. In roost cases they indicate an acute abdominal condition with harmor thank

Surgery offers the only hope of cure Jonn H Woolsey M D

BLOOD, TRANSFUSION

Moll II On the Transfusion of Blood through a Fine Needle Bril J Surg 1929 xxn 321

The author describes a very ingenious apparatus for use in the transition of citrated or defibrinated blood. It consists essentially of a pear shaped container which drains at the pointed end and a two way stopcock to which a syringe is attached on one side and a needle on the other. There is also a

heated holder in which the pear shaped container may be carried. With this appiratus Moll uses French's needle which has a point with three facets and a comeal stem.

The pear shaped container allows blood to be more safely given under pressure. The two ray stopeoch makes it possible in finding the ven to withdraw blood into the syname and thes by turning the stop to give the blood without loss and without the stop to give the blood without loss and without When all of the blood has been given the step is turned back the injection of air being therefore avoided.

LYMPH GLANDS AND LYMPHATIC VESSELS

Freeman L Chronic Non Specific Enlargement of the Mesenteric Lymph Nodes As Related to Surgery 4nn Surg 1939 xc 618

Chronic non specific enlargement of the mes enteric lymph nodes is a common condition and fre quently is the only lesion that can be discovered in laparotomies on children and young adults. Path ologically it is only a simple hyperplasis.

The author suggests that influenza acting through successive system may be responsible. The symptoms are indefinitely gastro intestinal in character. A low grade persistent fever is often present. The frequently, neuronic temperament of the path. It is ascribed by Freeman to irritation of the suton mouns nerve filaments. NATHAN N CARLA VID.

SURGICAL TECHNIQUE

OPERATIVE SURGERY AND TECHNIQUE. POSTOPERATIVE TREATMENT

Hartwell S W Surgical Wounds in Human Be ings A Histological Study of Healing with Practical Applications 1 Epithelial Healing 4rch Surg , 1929, x1x 835

From his studies of the healing of surgical wounds Hartwell draws the following conclusions

The living cells of normal human epithelium are potentially amerboid cells

In the healing of wounds the covering with epithe hum takes place through the amorboid movement into the wound of cells from the surrounding epithe hum Such moving cells form an 'extension mem The process of covering with epithelium is completed by the union of two such membranes from opposite sides of the nound followed hy re arrangement and multiplication of the cells of the membrane

Mitosis occurs secondarily to cellular movement

and late in the process of healing The majority of the cells which form the extension membrane are derived from the prickle cell layer of the o'd epithelium

A hasal cell layer is formed under the epithelial outgrowth hy a rounding up and alignment of the lowermost cells of the membrane rather than by the

outgrowth of cells from the old basal laver The prickle cell of the normal epithehum is there fore capable of becoming the basal cell in the crithe hum of the scar and must be considered the primary cell in the regeneration of epithelium in the healing of wounds

The formation of the healing enithelial membrane is dependent upon a supporting base suitable for the

movement of epithelial cells

The base available for the support and advance of the epithelial membrane is the chief factor deter mining the time and place of the union of the epithe hum from the two sides of the wound.

The rate of cornification of cells of the membrane is also a determining factor in the rate of the process

of covering with epithelium

The chief causes of delayed epithelial healing therefore are the existence of a supporting wound surface unsuitable for the progression of epithelial cells and rapid cornification of the cells of the mem brane due to an inimical chemical or physical envi ronment. These conditions are accentrated in in fected wounds

Any beneficial effect of a particular method of dressing wounds may be referred to its action in producing a more suitable base or a more suitable envi ronment in which the epithelial cells may grow out normally

Mackenzle J R The Etlology and Prophylaxis of Postangethetic Sickness Lancet 10 0 ccxvii

1200 Mackenzie helieves that surgical technique has outstopped anæsthetic technique and that some of the delay in postoperative convalescence and even some of the postoperative mortality may be assigned to the effects of the anasthetic and its administra tion. He contends that the anasthetist must accept more responsibility for the surgical patient both before and after anasthesia

There are four outstanding factors which predis pose to postanæsthetic sickness the psychic element the pre operative preparation, the anesthetic and

ats administration, and surgical trauma

Mental phenomena are factors throughout the conscious, subconscious and unconscious states of anasthesia as well as in the pre-operative and post operative periods The effect of apprehension, fear, dread or anxiety regarding the operation or the anzesthetic is underestimated Expression of the emotion during the pre-angesthetic period reduces the postanz sthetic effects while repression increases Emotional simulation of the suprarenal them glands causes depression of gastro intestinal function and an abnormal breaking down of liver givcogen with resulting hyperglycamia and glycosuria

Pain controls the psychic element to a remarkable

degree, as is evidenced in obstetrics emergency work and painful surgical conditions. Examination and encouragement by the anaesthetist previous to meeting the patient in the anasthetic room help to maintain equanimity There are various indications of nervous stimuli reaching the brain during the surgical procedure which show that nerve excitement and exhaustion can continue throughout surgical anasthesia Comiting during the subconscious peri od of the return to consciousness is due to the influ ence of the anasthetic on the medullary centers or to the stimuli reaching the cortical cells. Novocain infiltration of the operative area protects against the latter Rapid de etherization seems to increase the frequency of vomiting while the patient is on the table and to decrease it thereafter

Pre operative preparation is overdone A mild apenent forty eight hours before operation is suffi cient The use of easter oil or magnessum sulphate shortly before the operation is definitely harmful Enemata are unnecessary and detrimental except in special cases They are potent factors in the causa tion of postanæsthetic nausea, vomiting tympan ites and paralytic ileus Inanition should be pre vented by giving food, especially carbohydrates up to within a few hours of operation Lack of carbohy drates causes incomplete oxidation of fats with a resulting Letosis which is an exciting factor of post

anæsthetic vomiting Mackenzie believes that the repose and indifference resulting from a preliminary hypotermic injection of morphine outweigh any possible disadvantages the injection may have

Postamethetic suchees is nost larguest after some form of either anesthem is cogen is broke and when the substance is such resultage by per gly cemus which is followed in the postamethem period by ethicuston of the resultage furnishma and depletion of body plycome, and the close The deration and depletion of body plycome, and the close The deration and depth of anxieties have an important beaung upon poet an experience of the companion of the compani

Surgical trauma should be reduced to the minimum by careful handling of insures. The partial should be assured of a night is rest before operation by the use of veronal or bromaines. The administration of to go of glucose ogg of aspirin and r dr of populassium bromade an ½ pt of water by recture to the patients of return to bed in a valuable aid in the prevention of postangatient sections. Similar disconsisting the prevention of postangatient sections.

Huffman L D Solution of Acade and Sodium Chloride in Hæmorrhage and Shock Effects of Intravenous Administration J im M lts 1929 xem 1698

The intra-enous administration of colloidal solutions in combining the effects of hamorrhage or shock was introduced by Hogan who advocated the use of a gelatin solution. During the world was Basilass reported the non toxicity of an acata and sodium chloride solution. Later keith demonstrated the headical effects of a solution of acasa and the headical effects of a solution of acasa and in the solution of the suggestion of Keith has made a study of this solution and now advises its use in selected cases of surgical shock advises its use in selected cases of surgical shock.

The author reports observations on a senes of more than 300 cases of the effects of the intravenous administration of acacia and sodium chloride. The great importance of care in the preparation of the solution is emphasized The method used by Oster here is advised for routine chinical use. In over 200 of the cases reviewed an increase in the blood pres sure occurred which was progressive with the vol ume of the solution administered A rise of from 30 to 40 per cent in from one to eight minutes has been noted There was a greater corresponding increase in the systolic pressure than in the diastolic pressure. The blood pressure was well maintained following the injection. In general the pulse rate decreased and there was improvement in the volume and the quality of the pulse In postoperative surgical shock, the respiration became slower and deeper und the peripheral cyanosis decreased with the improvement

in the circulation and the elevation of the bloodyrs sure. Although less satisfactory than transfrom there was found to be some decrease in the cough ton time after the injection. No injuness efficient the lading's were noted, but in some cess the window of the couple of the lading's were noted, but in some cess the window of the lading's the lading of the lading

CLARENCE V BATEMAN MD

ANTISEPTIC SURGERY TREATMENT OF WOUNDS AND INFECTIONS

Mlassen P Chronic Traumatic (Edema of the Dorsum of the Hand (Ueber das chroniske tramatische Handrucckenoedem) Monatische f
Lufalikeit 1920 ERSVI 280

The author discusses the clinical picture which was first described in 1901 by Secretan on the basis of two observations as oedeme dur et hyperplasse The cause is traumatique du metacarpe dorsal usually blunt force which is often slight Less fre quently it is sharp injury without infection. The swelling is usually very painful. It appears at once or after an interval of several days. The ordena usually ceases abruptly at the wrist only occasion ally extending slightly onto the forearm The swell ing over the bones of the hand is often movable A similar condition has been observed on the dorsum of the foot Oceasionally the roentgenogram shows bony atrophy The picture is generally character istic In the differential diagnosis phlegmon of the band tuberculosis of the carpus and metacarpus blue ordema (Charcot), trophoneurotic ordema and

The author reports seven cases

The nature of the condition is unknown. Treat ment has no effect. The course is prolonged. Hos pital care for five or six months is of no heacht. E. GLASS (2)

ANÆSTHESIA

Peterson R Report of an Explosion of Ethylene Gas Resulting in the Death of a Materilly Fatient and Her Child Am J Obst & Gynce 1979 xvm 559

The accident reported by the author occurred in the case of an unmarred mentally deficient principal and anteen pears of age. In the second stage, taken, because of the strength and frequency of the pains and marked bulging ether in sight bogath was given until the entry of the tibyles-coupter answitchest stages of the second stage that the coupter of the second stage of the second s

The mixture used in a McKesson apparatus was as per cent ether and 75 per cent orygen. It has been the practice to ask the patient to breathe deeply three times at the beginning of a pain. The mask is then removed from the face and the patient urged to bear down In the latter part of the second stage, when the head is extended over the permeum it is customary to increase the amount of ethylene and decrease the proportion of oxygen until practically complete anasthesia is produced. The explosion occurred after the fourth or fifth administration of the mixture before the proportions of the ethylene

and overen had been changed

The explosion occurred at approximately ro to It was violent and loud enough to be heard throughout the four story maternity building The anasthetist was partly blown from her chair but escaped serious injury. The gas machine was seen to he on fire but the flames were promptly extinguished

by means of a blanket

Immediately after the explosion the patient cried out and attempted to rise to a sitting posture on the delivery table. After resuming the recumbent position she went into obisthotonus, began coughing up large quantities of foamy blood and became un conscious. Almost immediately after the accident her neck and face became greatly swollen and distorted by marked emphysema. The heart beat was at first fairly strong but gradually became weaker until death occurred at 11 00 p m

Warthin's autopsy findings were as follows traumatic death ethylene explosion during anais thesia for childbirth multiple lacerations of lower trachea great bronch; and parenchyma of lunes massive hamorrhages throughout the lungs intersti tial emphysema of the upper half of the body fatty degenerative infiltration of the liver suberscardial fatty infiltration with moderate right sided cardiac dilatation limitdous of the adrenals cedema of the meninges and hrain

At an investigation of the cause of the explosion the following facts were recorded

The rubber pneumatic face cu mon was miss ing but there were the remains of the celluloid bood under the collar which normally holds it attached to the metal parts of the face inhaler

2 The breathing tube 4 it long with a coal of wire running through from one end to the other showed three definitely punched out places where the rubber had previously been in continuity

3 On top of the head of the mrung valve the circular glass window which measured about 334 in in diameter had been blown out The fine glass from this window was thrown to the ceiling by the force of the explosion

The bottom of the rebreathing chamber was blown out together with the rubber glove fastened to this part of the chamber and used for rebreathing Purposes

5 A streak within the lumen of the beathing tube about is in wide appeared to extend from one end to the other

The author concludes that it seems best for the present at least to return to the use of nitrous oxide or gen and other given by the drop method

He states that a return to simpler methods of angsthesia will enable the student to be instructed better in seneral anasthesia and make it possible for the surgeon to control anasthesia or at least to keep un close touch with the anasthetist during the ad ministration of the anasthetic

The open mask administration of other is best for analgesia and anasthesia in the second stage of

In obstetrics complicated methods of anasthesia should not be taught to undergraduates or interns The simple methods will be more useful for delivenes in private homes where about no per cent of deliveries still occur F L CORNELL 'I D

Sise L F Spinal Anasthesia for Abdominal Operations A 1 ork State J W . 1020 xxiv 1182

In the past, spinal apasthesia was associated with considerable danger but recent improvements have greatly increased its safety. Its advantages are extreme relaxation contraction of the intestines and quiet respiration all of which facilitate abdom mal exposure and manipulation. Its disadvantages are vascular depression, the impossibility of extend ing or shortening the narrosis and nauses Headache, paralysis, and trophic disturbances are usually only temporary The mortality varies but the author believes it is about I death in 3 000 cases

Sise indures spinal anesthisia with a solution called spinocain which is lighter than the spinal flu.d He combats vascular depression by selecting the patient carefully administering fluids and glucose and using epinephrin just before the in duction of the ana thesia. If the depression ad vances and the blood pressure drops to two thirds the normal, the patient is placed in the Trendelen

burg position and epinephrin is given

The author has used spinal anasthesia in 700 cases with I death. He believes that when it is ardu ed by an expenenced anasthetist it is the anæsthesia of choice for abdominal operations

GEORGE R MCAULIFF, M D

Christ A Percain a New Local Anaesthetic De rived from Chinolin (Ueher ein neuariiges Lokal anestheticum aus der Chinolinteihe Percain) dar kese u Andesth 1929 u 161

Percain a complex derivative of chinolin has been used in the induction of anasthesia in more than 500 cases It has a marked effect, causing anxithesia of the conjunctiva of rabbits in dilutions of 1 1 0 000 The anæsthesia fasts longer than that produced by any other known local anasthetic All forms of anxisthesia may be obtained with it dilution of 1 2 000 has the same effect as novocain of the usual strength The average duration of the anzisthesia is ten hours

The vasodilating effect may be counteracted by adding so drops of adrenalin to 50 c cm of the solu tion to be used Percain has hardly any untoward effects. Healing of the wound is not disturbed by it. Spiral anaesthesia is idealized with a core of a x roo solution. Percain is especially valuable for such a surface aniesthesia. It is as potent as tocaine and much less contact. It may be employed in cases of panulu bleration. In tenerous due to inflammation of the blad tion. In tenerous due to inflammation of the blad man it has a good effect when used as a paste. Its antiseptic properties may be of value in the bealing of wounds.

Zerfas L G and McCallum J T C The Clinical Use of Sodium Iso Amyl Ethyl Barbiturate Ansi & Anal 1929 viii 340

Sedum to and tehs harburate injected introducing to open careful to the careful to a specific described of controlling escribility and, byte of convenion and of allevating pain nectain conditions not responding to routine therapeutic procedures. It has been used also in combination with other general or local an exthetics for the induction of anexthesia. The amount given usually ranged between 0 s and 1 o mm (from 7)% to 15 gr) and did not exceed 1 g gm (23) fgr) at any one injection.

When used in amounts of 1 o gm (15 gr) in combination with introus order and oxygen it has usual by reduced the amount of nitrous oxide required from 10 to 50 per cent

It eliminated most of the undesirable effects experienced in anæsthesia induced with ether and prevented the postoperative occurrence of nausea

retching and vomiting

It is a safeguard to the life of the patient when given prior to the use of procaine and cocaine. The preparation of patients for operation with sodium iso-amyl ethal barbiturate bears out Lundy's theory concerning balanced anexitiesa. The brain of the anexitiesa is not carried by any single agent but is placed partly on the preliminary medication

and partly on the local anxisticus. The authors believe that sodium 100-2013 ethic barbiturate will prove to be useful when employed in the amounts recommended and when used for a definite reason. Its administration in combunate with other general or local anxisticus should be done only by persons who are thoroughly familiar with the methods and principles of anxistensa. It is a valuable therapeutic agent and adjusted to anaxythesia and adjusted to anaxythesia. The Amy Michael William of the anxistensa and the anxistensa a

PHYSICOCHEMICAL METHODS IN SURGERY

RADIUM

Martin H E Factors in Dosage Determination in Interstitial Radiation Radialogy, 1029 1111 338

The factor determining the dosage in interstitial radiation is the tissue dose or the quantity of radiant energy reaching all parts of the tumor It is therefore considered that the tissue dose of any mass is measured by the smallest quantity of energy which any portion receives The soal which should be striven for in accurate dosage is the smallest tissue dose sufficient to cause the death of all neoplastic cells within the tumor. In order to deliver that intensity to all parts of the tumor it is essential to know the minimum lethal dose Unfortunately however, no means of predetermining the minimal lethal dose of a neoplasm is yet known. The only biological unit of radiation at the present time is the skin erythema dose which is subject to so many interpretations that it can never be sufficiently definite

It is admitted that accurate dossige is not possible in practice. At the present the best results are obtained by interstitial overdosage. Overdosage in radiation is fairly comparable to the sacrifice of widespread normal tissue in surgical procedures. Dosage determination in interstitial radiation is largely empirical and will probably always remain so because of the numerous factors which are in

volved These factors are

The sare of the lesion. Lesions less than 2 cm of dameter present practically no problem as several times the lethal dosage may be used without dashantage even in radiorestant lesions. In the treatment of larger tumors the problem becomes more difficult A mass 4 cm in diameter working the control of the control of the distribution of the control of the control being far beyond the lumin of safety. The dosages indicated by diameters of the lesion are given by the author in a table. Interstitual radiation is not suitable far tumors of any very great size.

2 The shape and contour of the leason Since the radiations from an implant are emitted practically from a point source the zone of any given intensity is apherical. The action of a group of neighboring implants is the sum of the adjacent or neighboring implants is the sum of the adjacent or record to consider that it number of irregularly access displants are mutually benefited in their individual cones of action. Consequently it is of advantage to consider all masses to be treated by interstitual relation either as sphere or a combination of relation to the control of the control

is considered a combination of adjacent or over

lapping spheres

"i The radio-ensityity of neoplasms The quality whichs responsible for radioensityity in a neoplasm 10 unknown. However, as radiosensitivity in a neoplasm 10 unknown. However, as radiosensitivity seems to depend upon the differentiation of the tumor from the embry once form. Broder a classification serves as an mode. Frequently, Chinical Identification is as an index Prequently, Chinical Identification is a superiority of the property of the

4 Tolerance of the adjacent normal tissue and the effect on the whole organism of a lessened function of this tissue. It is unsafe to go beyond certain limits in certain localities. For example it is unsafe to irradiate the tongue or the floor of the mouth with more than 40 mc. On the other hand the breast and limbs tolerate larger doses well. The expolarus

does not tolerate small doses well

5 The tolerance of the organism as a whole Dous of 1500 mc of interstitual radiation noticeably affect the general health. There may be a fall in the red blood count and hamoglobin due largely to the direct effect of the radiation upon the blood cells established the state of the radiation upon the blood cells stated radiation are given to exposed ulcerated lessons convalencence can be made shorter and more comfortable by excusing or cauterizing the condemnded mass after a face to ten day period of interstitual radiation. At the end of unday, 8a per cent of the radion has been destroyed. By thus made tolerable.

6 Variation in the physical characteristics of the implants The elimination of belat 793 by the use of filtered implants has greatly improved interstitial therap, Implants having a filter of 03 mm of gold eliminate or per cent of the beta rays Greater doasse of the penetrating gamma radiation is per mitted by the use of filtered implants As it is mapscashed in place implants exactly in their theoretically correct posthon it is necessary to overdose no order that the lethal does may be delivered to all on order that the lethal does may be delivered to all on order that the lethal does may be delivered to all on order that the lethal does may be delivered to all on order that the lethal does may be delivered to all on order that the lethal does may be delivered to all on order that the lethal does may be delivered to all on order that the lethal does may be delivered to all on order that the lethal does not only the order of the state of the order order of the order or

7 Previous radiation or intended external radia tion. Each succeeding failure to radiate a recollasm completely readers the next attempt more difficult because of leasened tolerance and a lessened power of regeneration on the part of the local normal tasue External industion can practically always be combined with interstitial radiation to good advantage

A JAMES LARRIN M D

tion to be used. Percain has hardly any untoward effects. Healing of the wound is not disturbed by it Spinal anvethesia is induced with a c cm of a 1 i coo solution. Percain is expecially saluable for surface anarshesia. It is as potent as cocaine and much less tour. It may be employed in cases of paniful ulceration. In tenessous due to inflammation of the blad der its effect is especially martied. In paniful care, nomis it has good effect when used as paste. Its of wounds of the order of the control of the con-

Zerfas L G and McCallium J T C. The Clinical Use of Sodium Iso Amyl Ethyl Burbiturate Anes & Anal 1919 van 210

Sodium 150-amyl ethyl barbharate mjected intravenou is in a rope reent solvitum is capable of controlling essentially any type of convulsion and allowating pain in certain conductions not responding to routine therapeutic procedures. It has been used abo in combination with other general or local an existency for the induction of annishtesis. The amount given usually ranged between 0 5 and 1 or gm (from 7½ to 15 gr) and did not exceed 1 g gm (23½ gr) at any one injection. When used in amounts of 1 o gm (15gr) is to heation with introus on ie and origin it has and by reduced the amount of introus onde remail from 10 to to no not cent

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MISCELLANEOUS

CLINICAL ENTITIES—GENERAL PHYSIO-LOGICAL CONDITIONS

Brandes W. W. The Effect of Mechanical Construction of the Hepatic Velus with Special Reference to the Coagulation of Blood. Arch Int. Med. 1929 2111 670

Brandes describes a method of mechanically con stricting the hepatic vens in the dog. This procedure permits a study of the changes occurring in the blood following removal of the liver from and its return to, the circulation

Such construction is followed by a precipitate fall in the blood pressure of from 40 to 60 mm. He the level then being maintained reasonably constant for twenty minutes or longer.

It causes also a decrease in the concentration of the blood which is followed by a gradual increase until at the end of fifteen minutes, approximately

the normal concentration is again reached

The blood surar also rapidly decreases during the

constriction for fifteen minutes and rises rapidly after release of the constriction

A definite decrease in the coagulation time of the blood of from 25 to 50 per cent is observed during the constriction and is followed by an increase on release of the constriction

There is a definite decrease of fibrinogen during the constriction and a definite increase of 25 per cent or more on release of the constriction

The platelets are slightly decreased during the construction and show a slight increase on its release. Changes in the blood calcium can be accounted for by dilution.

The experimental results indicate that the chief factors concerned in the changes in the coagulation time during and after constriction of the hepatic veins are (1) alterations in the antithrombin content (2) an increase in the hydrogen son concentration and (3) numerical changes in the platetes the hydrogen was concentrated to the content of the co

Schumm II The Disease Picture of Juvenile Gangrene iDas Krankheitsbild der juvenilen Gan graen) Beitr klin Chir 1929 cxlst 551

The author presents a review of our present day knowledge of juvenile gangrene on the basis of the literature and clinical and pathological studies of eight of his own cases of the condition

Juvenile gangrene is believed to be becoming more frequent. Schumm discusses its differential diag noisi from arteriosclerosis diabetic gangrene and syphilis. It differs from sentle gangrene, which is usually of sudden onset by its prolonged course.

Chinically there occurs after a usually not char acteristic preliminary stage of neuralgic rheumatic

symptoms the syndrome of intermittent claudica tion. The attacks of pain are very severe. Even when gangeree has begun temporary improvement may occur in the blood supply, but is of should duration. In contrast to senile gangeree, juvenile gangeree does not most frequently attack, the large toe and the half of the foot.

Pathologically there is no vascular syphilis no calcufactation of the media, and no selectatheroma toss. The underlying process is related to the socalled endacterist soluterian. As this classification refers easy, to the coarsest and most striking changes the author speaks of a parangints thrombotica," as the media advantation and the viens are all most off metions.

The etology is uncertain. Among the factors which play a part in the development of the condition are congenited hypoplasm of the vascular walls racial peculiarities (the condition is attakingly frequent in Polah Jens), thermic influences, and the use of tobacco. The disease is seen almost exclusively in males. The exting cause is unknown.

The author does not recommend sympulactom, as he has never been able to prevent gangrene by this operation. There emains therefore nothing but amputation in the majority of cises amputation of the leg is sufficient. The amputation should be done appensively.

Schiavone G A Tetany with Continuous Generalized Contracture and Trismus In a Child (Tetana con contracturas permanentes) generaliza das y con trismus en un nino) Semana méd 1949 xxxxx 333

The patient whose case is reported has a boy eleven ears of sag who had recovered from pro tracted balteral suppurative otitis media two years previously and had had had congestion of the lungs a year previously. On December 19 1028 without any apparent cause be began to shave difficulty in a sall bosing. On December 2 he began to show rigidity and the conference of the conference of the conference of the conference of the was seen by a physician who gave him potassium broundle.

When he was rummed by the author on Docom ber 22 be presented the tentune faces or mass are doneus and marked bilateral trasmus. The masseter muscles were hard contracted and very promoter. There was no farral paralysis fever disturbance of deglutions or younting. The very seen commal and the patient experienced no pain when press ure was made on the cyclails. There were no signs of otitis or markeditis. His head was slightly inclined to the might, but there was no torticollo. His arms could

MISCELLANEOUS

Weinbren M. Ultraviolet Radiation in the Treat ment of Skin Ulcers. Brit J. Radial, 1920 ii 477

Weinbren records the conclusions he has drawn from his experience with ultravolet radiation of skin ulcers, gives a bired description of the treat ment, and reports the results in seventeen cases of various types

While some of the earliest work with artificial ultraviolet rightion was carried out on lipus, the subsequent employment of ultraviolet light in general treatment soon overshadowed its use in the cure of local lesions

In spite of the recent report of the Medical Research Council that there is no evidence that the ultravolet ray is of any value in the treatment of skin ulcers. Wembren asserts that he has found it of great value in healing ulcers of widely differing types after direct medical and surgical measures.

have failed
lie classifies the various skin ulcers as follows

I Those due to organi ms (a) pyogenic, (b)

granulomatous
2 Those not primarily due to organisms (a)
traumatic. (b) due to lesions of the circulators

system and (c) neurotrophic

However much the etiology may differ sepsis is
always present and must be cleared up, the epithelial

surface is missing and must be regenerated and the circulation is usually defective and must be sumulated to improve the nutnition of the area.

In sepsia Weinbren finds the water cooled lamp almost instantaneous in its effect upon the surface of the infection. Cultures taken at intervals from radiated ulcers show that the bactericidal action on the surface of the leaving gradually extends deeper

Stimulation of the blood supply by radiation is proved by the improvement in the color of the area. The following technique has been adopted by

s Radiant heat is applied to increase the flow of lymph to the ulcerated area 2 The lesson is exposed to the water cooled lamp

the doses being regulated according to the sepas of the ulcer a matter to be decided only by an experienced physician and not by a general operator of the lump

3 The lesson is subjected to mild exposure to the air cooled lamp to produce an erythema in the sur

rounding skin

Successful as is his method for the treatment of chronic ulcers of the skin and even of certian ulcers of the mucous membrane Weinbren does not suggest that ultraviolet radiation should be the first line of treatment for such lessons. He states that in cases of non tuberculous ulcers medical or surgist measures should be treed fir t OFTRUM BEASS

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360

be flexed and extended normally and showed no muscle contractures. Extraono of the legs was ren dered difficult by marked contracture of the poster normuscles of the calves and highs and less marked contracture of the anterior muscles. There was no opisthotono. The joints were normal. No external wound was found. Walking was difficult and some what spastic. The Wassermann test was negritive

The author presembed enemas of chloral bydrate and the administration of calcium lactiate and bro mude with adrenain by mouth. Up to the eight and the condition continued about the same, but at the end of that time the contractures of the legs began to decrease and finally they created entities. The trismus improved more slowly. The patient was discharged well on the twentient day. He had she ngained 3/5 kilos. Trousseau a sing was negative, and there was only a shight trace of thoseits, sign.

In the authors opinion this was a case of generalized contracture and trymms of the type called by Excherch "present communities or to determine the to make electrical communities or to determine the contraction of the contraction of the contraction of lieves the condition was not testants because there was no fever, the outcome was good and there was no external wound and no dysphagas As a matter of precontain the gave the nigericon of antiestants serium of ro con units each but the believes the chald have been approximately as the contraction of the contraction of the testants.

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These 'artificial tumors' are compared with other similar tumors. M Gowan believes that such meablastic tumors are tumors within the reicoloendothelial system, and that metastases in such cases are not true metastases.

the nature of perverted repair processes

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In thirty of fifty five mice with mambary cincer produced by inoculation the tumor regressed following auto-accinstion. The sufovaccination was brought about by injecting a per cent formalin in saline solution into the growth and the tissue around at The injection was done with a very fine pro-

it The injection was done with a very fact aligned dermic needle and very slowly, the attempt being made to distend the tumor without hursing its capsule. The quantity of the solution injected varied from o to ozy cm. The mice cured by the autovaccanation showed a high degree of immunity against subsequent implantations of the tumor.

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INTERNATIONAL ABSTRACT OF SURGERY

MAY, 1930

LANDMARKS IN SURGICAL PROGRESS

By IRVING S CUTTER M D Sc D , CHICAGO Dean Northwestern University Medical School

WILLIAM STEWART HALSTED AND HIS ACCOUNT OF THE INTRODUCTION OF RUBBER GLOVES IN SURGERY

FREDERICK LEET REICHERT M D
From the D p riment of Surgery Stanford University Medical School

R WILLIAM WELCH'S choice of William Stewart Halsted for the professor ship of surgery in the new medical school of the Johns Hopkins Uni versity in 1887 was a happy one Dr Halsted s reputation as an in vestigator teacher, and capable surgeon had been made in New York when at the age of thirty five he was called to Baltimore Here his activities for another thirty five years placed his name first among American surgeons in meticulous and finished surgery in careful and trustworthy re search and in true teaching

His was the first imerican school of surgery in which the pupils were so thoroughly trained

after years of apprenticeship! that they were quickly called to professorial posts mother medical exchools. Clinical problems were taken to the laboration where he and his associates zealously and carefully endeavored to find their solution. The operating room and research laboration were of equal importance to the master and his

WILLIAM STEWART HALSTED (1852-1922)

pupils, and by frequent visits to European clinics Halsted maintained a constant enthusiasm in his department for new principles and new investigations His professional career, surgical

In sproessonal caree, surgical from the beginning had its inception in the first decade of the antiseptice at Lister sprinciples had found an enthusiastic supporter in Halsted, a fact which added materially to his early surgical prominence in New York In the early eighties, the German surgeous, von Bermann (18361907) Schimmelbusch (1866-1907), and others replaced chemical sterilization with antisepties by physical methods of sterilization and thereby introduced the asep

tic era of surgery Halsted was quick to see its advantages and contributed much to the per

fection of this technique

In his teachings he constantly emphasized the four fundamental principles of modern surgery, namely absolute aspess, complete haemostasis, gentle handling of tissues and careful approxmation of tissues. His ability successfully to employ fine silk in all clean operations may be

"Hal ted W S Th traing of the surgeon Boll J has H pk as Hope B it 1904 sv eft 67-276

ascribed to the application of these principles since the use of silk is dependent upon assepts of the highest degree in the operating room. It is said that silk tests one's assepts, and it is sig inficant that his pupils are practically the only surgeons who use silk consistently and invariably at the present time.

Dr Halsted's introduction of rubber gloves

into surgery has been accepted as one of the most

important adjuncts to aseptic technique describes1 the first use of rubber gloves in the operating room in the winter of 1889 and 1890. shortly after the opening of the Johns Hopkins Hospital The nurse in charge of the operating room (who was later to become Mrs Halsted) complained to him that the solution of mercuric chloride used in sterilizing the hands had caused a dermatitis on her forearms and hands she was an unusually efficient woman, I gave the matter my consideration and one day in New York requested the Goodyear Rubber Company to make as an experiment two pairs of thin rubber gloves with gauntlets. On trial, these proved to be so satisfactory that additional gloves were ordered In the autumn on my return to town the assistant who passed the instruments and thread ed the needles was also provided with rubber gloves to wear at the operations. At first, the

operator were them only when exploratory in cisions into joints were made. After a time the 'Jilite' b' 'The reply ment of dec silk in pricence to carried said that ' 're' vir' or manner tunce and cool o controller hemotristics. Also nor a led they tood by it for experiment the said that ' re' vir' or manner tunce and cool o controller hemotristics. Also nor a led they tood by it for experiment that were a said of the said

assistants became so accustomed to working in gloves that they wore them also as operators and would remark that they seemed to be less expert with the bare band than with the gloved hands

'I think it was Dr Bloodgood, my house sur geon, who first made this comment and that he was the first to wear them invaniable, when oper ating According to Bloodgood's statement in his report on hernia? he began to wear gloves

invariably in December, 1800 It was recommended that rubber gloses be worn by the operator and assistants in the far American book on aseptic surgical technique published in 1804 by Hunter Robb, then resident gynecologist at the Johns Hopkins Hopkins did therefore in close contact with the technique of the surrectal clinic

It is interesting that the use of rubber gloves in surgery was not the result of an inspiration to eliminate the hands as a source of infection during the operation. Their use was a matter of slow evolution, first as a protection for the hands of the assistants from irritating solutions, then assistants from irritating solutions, then assistants from irritating solutions, then assistants and other ports the extensive of those accu tomed to gloves as a sistants, and finally, as a regular adomnate to be worn invariably in all cases clean and septic by the operator and all members of the operator and the specific or the operator and all members the operator and the specific or the operator and the specific or the operator and the specific or the operator and all members of the operator and the specific or the operator and the specific or the operator of the operator of

*Bloodgood J C Operati no on ato tases f herms in the J has Royalms Hospital from ju 4, 1239 to January 399 John Horban Hospital Balk, 390 "
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HFAD

Ricard A Traumatic Ruptures of the Lateral Sinus (Des ruptures traumatiques du sinus latéral) Lyon chir, 1929 XVI 476

The case reported was that of a man of thirty four years who was run over hy an automobile truck and brought to the hospital in come with all of the signs of a basal skull fracture. On the basis of the symp toms of mydriasis and temporoparietal ordema a diagnosis of intracranial hamorthage from rupture of the middle meningeal artery was made, and the next afternoon a trephination was done. A rupture was found at the bend of the lateral sinus. It was tamponed tightly and a drain was left in the lower end of the wound. An attempt to remove the drain at the end of six days was followed by renewed hamorrhage Another tampon was therefore put in and left until the twenty first day The patient re covered with complete deafness on the left side. He noted also a slight decrease in vision although there were no ophthalmoscopic findings. The right

side showed no contractures of motor disturbances
The author has collected sittly mine cases of in
Jury of the lateral sinus from the literature. In forty
two of them the injury was caused by direct trauma
In thirty three of the cases of direct trauma a frac
ture was present. Operation was performed in

twenty-one

In the cases in which the wall is not torn directly hy the fracture fragments the rupture is generally at the bend of the sinus and there is pecual thinness or friability of the wall When the sinus is ruptured there is progressive hamorrhage between the bone and the dura mater Less frequently there is also subdural hamorrhage due to a focus of cerebral con tusion and rupture of a pial artery or sem. The causes of death are hamorrhage compression of the brain or infection. The symptoms are those of cere bral compression by intracrapial hamorrhage. The two essential signs of cerebral compression from hemorrhage are hemiplegia and stertorous respira l'emporoparietal ordema dilatation of the pupil and slowing of the pulse may also occur Be tween the time of the accident and the appearance of signs of compression there may be a free interval but this is rarer in rupture of the sinus than in rupture of the middle meningcal artery. If the hæmor thage is very copious there may be compression of the cerebellum with a rapid instead of a slow pulse slow deep respiration instead of Cherne Stokes res piration fever instead of hypothermia and somit ing It is generally impossible to diagnose the site of

the hamorrhage, but the hamorrhage itself indicates operation. The site of operation can be deter mined on trephination. In nine out of ten cases tamponade is indicated. As a rule it is simpler and safer than suture. The tampon should be left in for at least two weeks to permit complete healing. ACRAY of Monay, MD.

Henri Fischer Congenital Ante Auricular Fistu Im (Considerations sur les fistules congénitales antéaunculaires) J de méd de Bordeaux 10 0 CV1 711

The fistulæ observed by the author were pear the origin of the ascending portion of the helix or in front of the trigue. They were small deep fistula following a rectilinear course practically vertical from 5 to 20 mm in diameter and usually oval. Some of them were situated at the peak of a small eminence

Congenital ante auricular fistulo are slightly more common in females than in males. They may be unlateral or blateral. They occur as frequently on the left side as on both adds at once but on the right side then are extremely rare (one ease in forty five observations). Transmission of the anomaly hy heredity is very common.

The fistule anse from the non fusion of two of the three first cartulaginous eminences or hetween these eminences and the cramal tegument with invagination of a portion of the epidermis. They therefore have their origin from the first hranchal groove.

Exploration is contra indicated as the fistulæ re main quescent unless they become infected

Congential fistulæ in the region of the ear may be classihed into five groups as follows. (2) those of the anterior curve of the helix. (2) those of the lobule, (3) those above the tragus, (4) those in front of the lobule and (5) those of the neck.

PACE.

Lindemann A Plastic Repair of Defects of the Jaw (Die plastische Deckung der Luccken der Lieferknochen) Chirurf 1929 1 817

Defects in the upper jaw may be filled in a reliable and satisfactory manner by prostheses but for defects in the lower jaw free osseous autoplastic grafts are preferable to provide a scaffold for the regeneration of the bone and to act as a supporting surface for denal providences. Such grafts are indicated in cases of loss of mandibular continuity, from injury, and operations on congenitable removal of tumors and operations on congenitable grafts and jaws which have failed to develop property. I add jaws which have failed to develop property. German Jaw Chine at Duck eldorf about 1,600 bone transplantations have been done in the past fourteen jears and of these approximately 1,100 fourteen jears and of these approximately 1,100

were done for defects of the lower jaw. All except about 2 per cent were free transplantations

In more than too microscopic studies made by the author it was found that in no case does the implanted tisrue | 10 pieces of bone or soft tissue remain permainently. It is more or less rapidly replaced by new tissue formation. The tran plant causes an intration of its bed resulting in fluid transudation which penetrates the implanted tissue more or less rapidly depending upon whether the latter is soft or hard. Ley throcyte indiffration fold the soft of the control of endo the latter is soft or hard. Ley throcyte indiffration for the latter is soft or hard. Ley throcyte indiffration for the latter is soft or hard. Ley throcyte indiffration for the latter is soft or hard. Ley throcyte indiffration for the latter is soft or hard. Ley throcyte indiffration that the latter is toold and a general tissue takes up the work of dissolving and replacing the mindax.

This process may proceed even beyond the firmits of the original implant. It does not matter whether the size of the defect to be filled is farge or small whether the implanted bone hes in a bed containing living remnants of periosteum or bone still capable of regeneration whether the soft parts to support the implant must themselves first be huilt up plas tically and therefore contain no periosteal or endos teal tissues, whether the defect is in the anterior region of the Jaw bone so that bony atumps are present for both ends of the implant or whether in the ab sence of one of the stumps of bone one end of the implant will be without support. The growth and shape will be determined by the conditions of use of the implant as well as by the blood supply and will be hampered by scar formation these wealness and impairment of the blood supply

The clinical cure which follows the anatomical healing will be complete after from two to three months. The immobilizing supports may then be removed and the dental prostheses applied. In young persons the strength of the structure and the

site of the transplant will increase with the growth

of the rest of the jan The procedures best suited to the varying conditions are illustrated by histories of cases of defects following the removal of a tumor or following in tury. It is important to remove sources of infection and to make a preliminary correction of the position of dislocated bony stumps. Even small uneven stumps should be preserved unless their removal is nece sitated hy the nature of the original trouble (cancer tuberculosis) The filling out of very large defects and plastic building up of the entire lower ian should be done in several stages. Mer plastic reconstruction of the mandibular toint the contact between the ends of the new joint sometimes be comes loosened because the implanted bony section was too short or undergoes too rapid arrophy or be cause the covering tissues especially the muscles are weak. The lower jaw then moves loo elv and articulation and mastication suffer. In such cases the use of orthopedic dental prostheses and injections of allohol to secure the formation of a support ing cicatricial pad may be of aid

In cases in which the lower jaw is too small the surgeon should not be content with improving the

external form by filling out the ch n with bone but should strengthen the power of mastication. In the West German Jaw Clinic good results were obtained in a large series of cases of receding chin by cuttion through the horizontal ramus of the jaw in the region of the canine teeth or the first bicuspid on bo h sides stretching the resulting bony defect until the loosened middle section containing the chin was brought into fairly exact relation to the upper jaw fixing the jaw in the corrected position by mean of Bruhn s extension forceps and hooks after the appl. ance had been previously well tested in every detail on a model and in the mouth and fitting in between the ends of each defect sections of bone obtained from the crest of the shum. I xtra-oral any thesia of the second and third divisions of the trigeminus by Lindemann's method will be entirely sufficient. The author discusses the advantages of obtaining the transplants from the crest of the dium. The transplants are never fa tened with foreign material such as were and silk but are fixed orthopedically

Gross Scenerally

Sudeck P and Rieder W. Matagnant Tumors of the Mandible and Their Treatment (Die malnen Unterkiefertumoren und ihre Behandlus) Erg bn d Chir 1920 xm 55,

This is a detailed discussion of the pathogeous chinical and rootingen pictures and treatment of sarcomata caranomata endotheliomata on the borderline which sometimes run a being come and sometimes a malignant course admanation turns and many of the authors own application operative experiences. The transport of the properties of the support of the properties and operatively removed spectiments front properties of the properties and on a citation is bulboureraby.

When a sarcoma or carenoma develops from an anyur, the triated wound does not held and granulation tussue is formed. From the granulation tussue is formed. From the granulation issue the new growth develops but the conditions for its appearance are as vel wholly unexplained. The existing of itsue for histological examination is permissible if for example alter the extraction of a tools the socket is found to be filled with granulation tissue, but is not permissible if the tumor unit first be operatively eye of and it is impossible to make an immediate histological examination and perform a radical operation if malignancy is

Jound authors are coarunced from their expenses of the accurrence of central fabrona of the lone; jaw of malgrant adamantinoms and of central ejustic malgrant adamantinoms and of central ejustic materials and adamantinoms and of central ejustic materials. The state of the parameters of the parameters of the mandale must be optacled under and sarcoma of the mandale must be optacled and the provided adaptoriting. Radium several to superior designation of the upper tables the proof results.

The authors cate the case of a patient operated upon for a tumor of the jaw intermediate between

an adamantinoma and a true basal celled tumor of the skin which shows that artificial substitutes for a part of the jaw (prostheses) may be worn for years without signs of irritation even when the wound in which it is placed is not completely epithelialized Koenig Roloff ivory inserts were found of value chiefly in the cases of older persons. In others the reconstruction of the living bony connection be tween the stump ends of the jaw bone either imme diately or later as conditions may indicate (in malignancy after six months) was done successfully The authors do not approve of the 'combined procedure (implantation after fourteen days into the freshened granulating operative wound) or of Axhausen's "preliminary implantation in cases of malignant tumors Group Sciniffor (Z)

EYE

Gifford S R Muscle Transplantation for Para lytic Strabismus 1rch Ophth, 1929 11 651

The author reports three cases of paralytic strahams which were operated upon with good results. The operation was performed under general aaxisthesis in order that the extensive infiltration of local injection might be avoided. Tollowing complete tendoring of the opposing muscle and good epositive of the paretic and two vertical muscles the outer third of the superior recture was freed the outer third of the superior recture was freed the outer third of the superior recture. We have the outer third of the superior during the outer third out the safety that the outer third out the outer third out the safety that the outer third out the third in the safety that the outer than sutured through the upper third of the transplans were than sutured through the upper third of the transplans of the paraly sed muscle and beheath that tendon

After the operation double bandages were kept on for seven days The stitches were removed on the tenth day George R. McAuzire M.D.

Rutherford C W Membranous Conjunctivitis with Loss of the Eyebalis Report of Cases J Am If iss 1929 zena 1779

Membranous conjunctivitis has been recorded in the literature since 1855 under the term pseudomem branous plastic, diphtheritic non diphtheritic crowp ous superficial or deep conjunctivitis. Many factors have been considered reponsible for its omset and many types of treatment have been instituted but there seems to be no definite knowledge regarding its etology and therapy.

The author sent inquiries regarding this condition to 100 ophthalmologists. From the 73 replies received he draws the following conclusions.

 Conjunctivitis is a state of reaction to injury or infection

2 The formation of membranous exudates is an intercurrent condition which cannot be produced by lajuries or organisms alone.

3. A predisposition or susceptibility must be pressent. This can result from (a) an injury slight or severe (b) a local inflammation in the incubation active or convalescent stage or (c) a general disease which has lowered the pairent's resistance

4 To predisposition must be added organisms that are capable of doing harm

5 Membranous exudates of relatively short dura tion occur in some cases of diphtheria. They occur also in a recurrent form of prolonged duration, especially if streptococci are present. Frequently, both eves are affected.

6 The principal complication of membranous conjunctivities is ulceration of the cornea with intra ocular infection and loss of vision, if not loss of the

eyeball
7 Treatment for the recurrent variety is usually

without effect

§ Membranous evudation of the conjunctiva is
only a symptom usually of some general disease in
which the ophthalmologist may have a consultation
interest or of an infection within the orbit for which

he has a surgical responsibility
Lesiae L. McCox. M.D.

Rucker C W Regeneration of the Cornes Arch Ophth 1929, 11 692

Rucker studied the regeneration of the cornea after excision of a part of it to discover what factors determine whether the newly formed corneal tissue will be clear or opaque. The experiments were performed on rabbits A disk from one half to threefourths the thickness of the cornea was removed from to a mm within the himbus.

Complete regeneration usually occurred in a week but the new tissue was so delicate that ulcers were frequently formed. The corneal stroma seemed

to be partly regenerated in a second series of experiments the hids were sewed together to protect the exposed stroma but after five days the eyes became badly infected

In a third series a conjunctival flap was drawn over the site of the operation but the subconjunc trial connective tissue became adherent to the corneal parenchyma before the epithelium could grow between them

Hence, in page of the experiments was it required.

Hence in none of the experiments was it possible to preserve normal corneal transparency

George R McNuller, M D

Rodin F II Angioma of the Iris The First Case To Be Reported with Histological Examination treh Ophik 1020 u 670

The case reported in this article was that of a four year old boy without any known predisposing cause. Rodin cites also mine other tumors reported as anisomata of the tris three of which may be considered as such from the chinical observations and six of which were simple granulomata, granu lation tissue or spindle celled sarcomata.

GEORGE R Mc VELDT, M D

De Courcy T L The Significance of Vitreous Opacities Bns M J 1929 11 999

The author helieves that vitreous opacities are caused by (1) changes in the condition of the capillary wall such as thickening and arteriosclero-

sis (2) changes in the condition of the blood such as toxins, which interfere with the endothelial cells of the capillaries or (3) changes in the vitreous itself, congenital traumatic, or mechanical Congenital remnants may be left in the condensatron of the fibrils as during embryonic development it is likely that some residue is separated and some of the fibrils remain Trauma when not sufficient to cause homorrhage may still upset the delicate mechanism of the vitreous gel, and a very small degree of trauma may cause separation of the protein base and liquify the vitreous producing Mechanical obstruction as in venous thrombosis produces hamorrhages from the sen with the unabsorbed residue left as vit reous opacities '

The most common cause of vatrenus opacities is an altered condition of the blood due to peneral or local totte causes. The glandular system and even the ducties glands may be responsible. In the study of a case presenting vatrenus opacities the shape of the eye the condition of the vatrenus was sels, and lens and the patients age and past and present greateral condition must be considered.

De Courcy believes it: quite possible that early cataracts and vitrous opacities have the same etiology. He describes the method of examination the measurement of the opacities the symptoms and rare types.

Lestie L MCCOy M D

EAR

Fowler E P Limited Lesions of the Basilar Membrane Arch Ololary atol 1020 2 624

Formerly, it was thought that true tone gape custed within certain narron frequency ranges although the frequences to each side were essaltheard. However with the perfected IA audiometer no true gaps occur and such areas have mariedly defective hearing. These areas occur in more deal of the control of the

GEORGE R MCAULTY M D

NOSE AND SINUSES

Skillern R II The Pathology and Diagnosis of Ethmolditis Ann Otol Rhinol & Larringol 1929 XXXVIII 902

Early in infection of the ethnood the nuccess along the edge of the middle turbinate as uness a blanched and translucent appearance. Finally true polypoid changes occur. The picture varies somewhat with the type and degree of the infection.

The types of ethmoiditis are classified by the author as follows (1) generalized infection of the

mucosa, which may occur in a small or a large time and in rate intables is associated with enp- and one cell or a sharply defined growth of cells (a) hyperplana and (c) combined hyperplana and spouration. The first form is rarely diagnosed in its early stages, chiefly on account of the paulot of swipploms. It often results in grace systeme distributions. Combined hyperplana and supportion are encountered in advanced cases of hyperplane chimodities. My Reno 31 M reno 31 M

Fenton R A Radical Treatment of the Ethmoid Intranasal Ann Oiol Rhinol & Laryngol 1929

The standard procedures in the radical treatment of the ethmoid by the intransal route are reviewed and discussed. The operative field as seen by the surgeon is portraved by a sense of sketches and the regions beyond visual control are indicated by lateral disarrams.

The objects of the intransal operation are first to secure acration and second to establish dramage without an admy unaffected reliular structures. Local anxistens supplemented by a primary acopolarum morphine injection is recommended. On a randications of a general nature include disease which may be implainted in the operative field. Acquired attress the small not ind childred and the intracranial complications of ethnical suppuration forbid intransal procedure.

Intransal superv of the ethnoid may be donen see craft stages. This cone eratus tendency is gaining more general acceptance. Intransal ethnoid proceedures are grouped as follows: () improved methods of access including septil resection partial middle turhinection; removal of polyri and must son of the anterior cells; (s) in vasion of the surface of the contraction of the surface of

The procedures of choice in the hyperplastic and supportative types of ethinoidits are discussed. The in truments used should have broad rounded out hines. The immediate after treatin at should be limited to harmostatis care should be taken not to meterfere with the normal process of healing.

In conclusion the author states that intransal surgers of the ethmoid has been found highly satefactors within the functions of its indications and that excessively radical methods carried out blindly through the narrow nasal pathwas are to be condemend of M. M. Parcy, M. D.

MOUTH

MacKenty J F The Operative Treatment of Cleft Palate A New Method Arch Otolaryagol 19 9 2 491

Following a brief historical review of the surgical correction of cleft palate MacKenty quites Mauken's conclusions as follows

 The operation should be advocated only when there is a fair likelihood of success
 It should be done only by those possessing

2 It should be done only by those possessing skill and experience 3 If multiple operations are probable the patient

or his parents should be so informed
4 The operation should be done as early as

possible

The operation aims at improvement of the

paints shealth his general morale and his speech
6. Speech education is imperative
Mackenty, believes that too little attention has
been given to the preparation of the child for oper
ation. He states that the premazilla may be re
placed from four to eight weeks after hirth. The
pailet should usually be operated on at the end of

the first or the beginning of the second year.

In the cases of older children the tonsils and adenoids should be removed and the teeth and gums properly cared for Since expite infection and traumatism are important factors causing failure the strictest asepsis must be maintained and the

operation performed with minimal trauma In the procedure used by the author in minision is made along both edges of the cleft and the periosteums elevated from the center outward to about the apex of the alveloar ridge. The sutures are

placed but not tied at this time

To releve lateral flap tension a silver or lead had about 1 en wide is passed through an incision just posterior to the alscolar ridge into the associate posts and the post of the silver incision on the opposite side. Traction on the two ends with the silverse the tension as the pathe satures at the hand releves the tension as the pathe satures at the silverse that the silverse the tension had been presented to be a silver to the silverse that the silverse t

To reduce disturbance by tongue pressure, an obstrator of platmod ware fitting the alveolar process and with cross bars over the palate is used. This is sered to the gum at three points and left in place until the sutures are removed. It guess considerable protection and yet in no way obscures inspection or interfers with cleaning. When teeth are present claspes are used to retruit the obstrator

As the result of the use of these mechanical devices the incidence of primary healing has been increased at least 20 per cent and in uncomplicated cases complete union results in 95 per cent

CHARLES W FREEMAN MD

Wassmund M Suppurative Processes of the Floor

of the Mouth (the entingen Processe des Mund bodens) I juste Zahnheith 1979 ally 1 272 The author bases his conclusions on chinical operative and anatomical observations made in more than 350 cases of severe purulent processes in the floor of the mouth which were treated during the last air years

He believes that the term 'Ludwig's angina which signifies only a single and not constant symptom of these conditions should be dropped and the

dscase which apreads as a phlegmon (the true 'phlegmon of the floor of the mouth') should be distinguished from purulent breaking down of the floor of the mouth and the negaboring spaces ("abscess of the floor of the mouth "abscess of the submanulary space" abscess of the submanulary space and abscess of the floor of the mouth and space and abscess of the floor of the mouth and

the paraphary ngeal space")
In the 55 cases of phlegmon seen by the author during the years 1977 and 19 8 there were 4 deaths, whereas in the 143 cases of abscess, there was no mortality. The process developed, not in the skin or more of the preformed spaces of the floor of the mouth (the fascal kind submental space the space in the muscultature at the base of the floor of the proformed spaces not lined by faces in the muscultature at the base of the floor of the profit of the form of the space in the muscultature at the base of the floor of the profit of the space in the muscultature of the spaces in the space in the spa

The most more approximate factors in the spread of the The most the open connection with the pate pharmageal and retropharyngeal spaces the burrow mig downward of the infection from these spaces into the spaces in the neck containing the large vessels and into the mediastimum or upward along the internal and external ptery good muscles into the precognition forest of exects in the authors material with a deaths from meningitis and thromobophic temporal home rupture into the particle space, invite son of the process from the submardillar, space into the vascular spaces of the neck extension downward over the hyord bone and the combination of philes mon of the floor of the mouth and the check.

Involvement of the parapharyngeal and retro pharyngeal spaces has previously been overlooked because swelling is not visible externally and the accompanying total locking of the jaws obstructs the

view into the mouth and pharynx

The chief cause of suppurative processes in the region of the jaw the cheeks, and the floor of the mouth is disease of the teeth especially disease of the dental pulp and its sequelæ Disease of the roots of teeth remaining latent for years may be suddenly made manifest by weakening of the general condition due to an infectious disease injury or operation After the teeth have been lost necrotic foci in the bony walls of the sockets may remain. The roentgen examination may be deceptive. Even when there is no tooth ache the teeth may be responsible for the inflammatory process in the soft parts and therefore should always be carefully examined Severe sup nurations of the floor of the mouth often follow the extraction of teeth or operations on the mouth when the wounds become infected Among other causes are nicers of the wisdom tooth the careless injection of a local anzesthetic infected fractures and osteomyelitis of the jaw salivary gland inflammation and salivary stone disease, inflammation of the palatine

tonsil (this is often falsely assumed when the point of origin is a diseased tooth) suppurative inflamma tory conditions of the face and mouth, injuries of the soft parts of this region the submaxillary lympha denitis of scarlet fever and measles and paradontosis In the author's cases the cause was obscure in only 5 per cent

The course of the process is mild when staphylococcus albus is the infecting organism. A mixture of streptococci renders the prognosis fess favorable Severe conditions are produced by the putrefactive organisms the anaerobes and the organism of grappe

(in the year 1927)

In the clinical picture the phlegmonous and the abscessing forms are to be differentiated although the distinction is not sharp. There is one group with a chronic course another (more numerous) in which the swelling progressively increases but ultimately a circumscribed abscess is formed, a third group (the largest) with severe acute suppuration of the floor of the mouth and a fourth group with uninterrupted progression of the phlegmon and general sepsis

The clinical symptoms vary also according to which of the anatomical spaces mentioned is in volved and according to whether or not in the severe progressing phlegmonous varieties other parts of the

body are affected The treatment begins with exact localization of the condition and the removal of obvious foci of disease especially in the teeth. The treatment of the suppurative process in the soft parts consists first of conservative procedures and later of whatever surgical procedures are indicated such as opening of the suppurative area for drainage of the inflammatory products and the ingress of oxygen ligation of the large veins to prevent dissemination of the infectious material and possibly tracheotomy. In every case care must he taken to preserve the defensive and healing powers of the body

The article is supplemented with a hibbography GEORG SCHMIDT (Z)

Gask, G E and Moir E D The Technique of Radium Treatment of Carcinoma of the Conque and Youth iclo radio 1929 # 403

The authors describe the method of examining the patient estimating the dosage of radium and inducing general and local anasthesia. They emphasize the importance of eliminating oral sepsis

The primary growth is usually treated by inter statual a radiation with radium needles or radon seeds The period varies from six to fourteen days

The glandular areas are treated with radium ace dles according to a standardized arrangement cover ing the submental submaxillar, and sternomastoid region The needles are left in position for from sev en to ten days. When the glands are large they are first irradiated by an external radium collar of Columbia paste

After the treadlation the patient is watched and a second treatment is given if it becomes apparent that the first treatment was madequate Antisyphilis treatment is given whenever the Watser mann reaction is positive

PHARYNX

Jessen J The Treatment of Carcinoma of the Tonsil (Ueber die Behandlung von Tonsillarkrebt) Lgest f Lager 1929 1 320

The author reports twelve cases of tumor of the tonal which were treated by various methods. All were advanced cases coming to treatment too late In some of them metastases were present. The ares of the patients ranged from thirty three to sixty two years Fleven of the patients were men Of four patients who were treated by radium implantation all died At first, there was improvement in the sense of local disappearance of the tumor with in some instances complete epithelialization of the necrotic areas but an even more rapid growth of tumor tissue soon occurred in the surmanding tis sues Microscopic examination also showed that in the healed areas the cancerous tissue had entirely disappeared but that the tumor cells in the sur rounding tissues still exhibited lively growth. The author explains the behavior in the surrounding his sues by assuming that these tissues were injured by the implantation of the radium and thereby rendered unable to resist the growth of the cancerous matter.

but other cases of tumor of the tonsti-four of carcinoma and two of sarcoma-were treated with The patients with carcinoms the roentgen rays showed no change under this treatment and all of them died In one of the cases of sarcoma the local tumor completely disappeared after three irradia tions but death occurred at the end of a month from cerebral metastases. Autopsy demonstrated the absence of local recurrence. In the other case the roentgen treatment was instituted after operative removal of the tumor and the patient is still free from recurrence after thirteen months

Cases of extensive carcinoma were treated by Local destruction of the disthermy coagulation

tumor resulted but the treatment had no effect on recurrence or metastasis

The author concludes that circumscribed sar comata should be treated by extirpation of the tumor followed by roentgen irradiation and generalized sarcomata by rountgen irradiation only and that circumscribed carcinomata should be treated with large doses of radium and extensive carcinomata hs electrocoagulation and roentgen irradiation

Lez (2)

NECK

Hursthal L \ The Significance of the Various Signs and Symptoms Following Subtotal Thyroldectomy for Hyperthyroidism Surt Clin \ 4m 1929 17 1319

There are numerous minor signs and symptoms which occur simultaneously with the marked im provement following subtotal thyroidectomy for

typerthyroidism Most of them suggest the possibility of one of the more serious sequelæ which may occasionally follow subtotal thyroidectome, viz ostoperative myxodema tetany, laryngeal paraly is and persistent or recurrent hyperthyroidism However these minor symptoms are usually of

comparatively little importance

Post operative myxedema appears as a rule with
in six months after the operation. It is associated

with a low hasal metabolic rate but its secretly as bot always in agreement with the hasal metabolic rate. Loss of hair is frequent in my rodema but is also very common after thyrothectomy and is in wranbly followed by a new growth within six months. Sensitiveness to cold and puffiness of the spekds are common features of myxrdema but both may be residual conditions from the hyper thyroid state. Brittleness of the finger nails dry ness of the skin and stiffness of the joints are often ness of the skin and stiffness of the joints are often ness of the skin and stiffness of the joints are often ness of the skin and stiffness of the joints are often and the stiffness of the skin and stiffness of the joints are often and the skin and the skin and the skin and the skin and press of the skin and stiffness of the joints are often and the skin and the skin and the skin and the skin and skin and the skin and the skin and the skin and skin and the skin and the skin and skin and the skin and ski

In active tetany following operation Choostel, so or Trousseaus sign is almost invariably positive if the blood calcium is below 75 mgm. Muscular tamps suggest tetany but are so exceedingly common for the first six months after thy roid operations.

complained of

that their significance is often problematical

The question of the presence of mild persistent pyrethy ordism must be decided in a small per entities of cases. The clinical impression rather than the metabolism test should be considered first where there is considerable doubt as to the presence where the presence of the presence of

Lugol's solution will prove partially effective in most instances and completely effective in some

The distinction between persistent and recurrent hyperthyroidsm is often arbitrary. Patients presenting symptoms of hyperthyroidsm after they have shown a normal metabolic rate with complete clinical cure at any one examination following subtoat they offended the state of the considered to have a recurrence. In recurrent cases there is what appears to be a regrowth or hyperplass of this round tissue which is the substantial of the substantial control of the substantial cases. Further minosial of the yout substantial control of the substantial control of t

Weakness of the voice is a fairly common com plaint following subtotal thyroidectomy. It is not accompanied by hoarseness, and laryngeal exam mation reveals no paralysis of the vocal cords. In most instances it passes off within a year.

SAMUEL KARN M D

Brandberg R A Case of Tumor of the Carotid Body with Thrombosis of the Arteria Carotis Internis Acts chirurg Scand 1929 lxv 464

The author describes a tumor of the carotid body in a woman twent one years of age which was removed without resection of the large arteries. The internal carotid artery was found to be thrombosed. The author believes that the thrombose was caused by disturbances of circulation anising from compression and backward and upward displacement of the artery by the tumor. The postoperative course was smooth. When the patient was re examined two years later she was found free from recurrence.

SURGERY OF THE NERVOUS SYSTEM

BRAIN AND ITS COVERINGS, CRANIAL NERVES

Gardner W J The Therapeutle Effects of En cephalography Pennsylvania M J 10 9 xxxin

In the cales of 19 patients suffering from the se quelæ of crantal trauma the average follow up in terval after therapeutic encephalography was nine months Of 12 patients with posttraumatic epilepsy 4 had no further attacks 5 had attacks less fre quently r showed no improvement and a had at tacks more frequently after the treatment. Of the 22 patients suffering from posttraumatic headache a nere completely relieved 8 nere benefited r reported no improvement and a stated that the headache was more severe. Of 6 patients suffering from tinnitus 2 were entirely relieved 2 were benefited a reported no change and a stated that the condition was worse Of the 8 patients complain ing of posttraumatic vertico - were entirely re heved a were benefited and a noted no change

Fourteen patients with a clinical diagnosis of essential epilepsy were followed for an average period of nine and three-tenths months after encephalog Five of them reported complete relief 4 stated that the convulsive seizures were definitely le s frequent 3 were not benefited and 2 stated that their condition was worse. In this group the associtted symptoms of headache tinnitus and vertico were relieved as much as the convulsive seizures

The encephalography was always done with the patient in the itting position. As the fluid was with drawn from the lumbar sac in 5 ccm amounts it was replaced with air in similar amounts until no more fluid could be obtained A constant check was kept on the intraspinal pre sure by means of a water manometer and marked fluctuations in pressure were avoided. The immediate ill effects were head ache, diaphoresis hausea and comiting No per manent ill effects were observed and there were no disasters in a series of over 100 encephalographies for esions of the central nervous system

KNUT H HOURS UD

Fujibayashi K Internat Ity drocephatus Produced Experimentally by the Intrancural Injection of India Ink (Ueber den experimentellen Hydrocephalus internus durch Intraneuralinjektion con Tusche) tele schola med uns Imp kioto 1929 20 105

Heretofore the experimental production of in ternal by drocephalus was always accomplished by means of agents injected directly intracranially through the occipital region Recently it has been shown that certain fluids can be injected easily through the entire nervous system. The author has made various drugs reach the brain by way of the sciatic nerve. In the investigations reported in this article he injected the sciatic or the median nerve of young rabbits and cats with a suspen ion of India mk or lamp black in machine oil in amounts of f om O 5 to a S E Em in a sinale portion or in as many as four portions The results varied with the amount of the ink and the method of injection

At necropsy the carbon particles were found over almost the entire brain surface e pecially on the basal surface and often in the clefts between the hindbrain and the midbrain. Following direct injection into the cranial cavity through the atlanto-occipital ligament the carbon particles are distributed chiefly over the dorsal surface of the cere bellum and in small amounts over the basal surface After injection of the sciatic or median nerve a con siderable amount of India ink was found in man cases in the ventricles especially between the plexis folds of the fourth ventricle. The carbon particl s probably entered the ventricle through the com munication at the fourth ventricle (the forsmins of Magendie and Luschka)

The appearance of the carbon particles in the ventricles did not ain ays produce an internal hi drocephalus The following four types of observations were made (1) no carbon particles with a the brand even though they were found in considerable amounts outside of the brain tentercles unchanged (2) carbon particles around the medulla oblongata but not in the ventricles ventricles dila ed (1) car bon particles within the brain cavities but ventucles undilated and (4) carbon particles in the ventucles and ventricles dilated

In case in which the ink particles were found not in the centrales but a ound the medulls oblon gata the dilatation of the brain cavities appeared only late. The appea ance of carbon particles in the ventricles did not always produce dilatation but their appearance in the brain cavilles or at least a deposit of carbon around the medulia was the nece-sars prerequisite for the development of in ternal hydrocephalus The third fourth and lateral ventricles were affected singly o combined ternal hadrocephalus was also observed but was only partial The space between the bindbrain and the midhrain which normally i a narrow cleft filled by the plexus of the third rentricle was dilated and always revealed a considerable amount of carbon.

As causes of the dilatation of the hrain cavities following the injection of foreign bodies two fac tors are mentioned namely (1) obstruction of the circulation of the spinal fluid as a result of the occlu sion of its passage by the foreign bodie and (2) bindrance to the passage of the fluid by reactionary

inflammation in the brain and its membranes. These two factors cannot be separated as the foreign bodies always produce a reactionary inflammation. At any rate the circulation of the spinal fluid was obstructed by the injection of ink or by the secondary inflammation, and the constantly accumulating fluid produced the dilatation of the brain cavities.

In conclusion the author says that so far as the foreign body effect is concerned intrancural in jections lead to the same results as the direct intracranial introduction of foreign bodies and he believes that the sheath spaces of a peripheral nerve afford an easy passage to the brain.

LOUIS NEUWELT M D

Dickerson D G Intracranial Hæmorrhage horthaest Med 1929 xxviii 535

Dickerson reports six cases illustrative of extra dural subdural substractioned and chronic subdural kemorrhage and intracramial himorrhage of the newborn in which persistence of the symptoms and the presence of focal signs led to operative interference. Uneventful recover resulted in every case

ference. Uneventful recovery resulted in every case.

Spinal puncture is mentioned as a valuable diag

nosite and therapeutic measure, but the hazards of
its indiscriminate use are emphasized.

KNUT H HOUCK M D

Manenkow, P. W. Experimental Contributions on the Mechanism of the Direct Affection of the Oblongata in Acute Buffuse Peritonitis (Expen mentelle Betraere zum Mechanisms der direkten Affektion der Oblongata bei akuter diffuser Pentom til) Zuchf erper Med 1029 [vi. 338

The experiments reported by the author were car med out on rabbits The vagus mere we are sectioned just beneath the diaphragm in one animal and 4Per thrae weeks a 1 noo didtion of a twenty four bour culture of staphilococci was injected subset outly into the wall of the stomach of this rabbit and a control animal I in order to render the conditions in both animal as a smultir as possible the conditions in both animals as smultir as possible the conditions in both animals as smultir as possible the conditions in the condition of a total condition of the condition of 1 to 200 and 100 a

In order to determine the importance of intoxica bon by way of the blood stream in peritornits one rabbit was subjected to a laparotomy and an injection of staphylococci into an ear vein and a control animal was subjected to a laparotomy and a subserous injection of staphylococci into the wall of the stomach.

In another series of experiments the author studied the local reaction following the injection of staph lococci into the stomach intestines urmary bladder uterus abdominal wall and parametrium He draws the following conclusions

r The cause of the rapid death in peritoritis lies in paralysis of the vasomotor and respiratory centers of the oblongata (Heineke)

2 In this paraly is the vagus plays an important role. Interruption of the neurolymphatic path of the vagus the direct connection between the organs in the abdominal cavity and the oblongata, protects the latter from quick, and severe involvement in peritoritis (Pigatles and Buschmakina Speransky). 3 If only a few of the franches of the vagus nerve are preserved, the difference between the length of survival of the infected animals and the control am.

mals disappears (Manenkow)
4 The intorucation of the oblongata does not occur his way of the blood stream. All of the animals infected by intravenous injection survived by an appreciable length of time the controls which received the injections in the gastic wall (Manenkow)

5 The tissues of the organs which have a direct neurolymphatic connection with the central neryous system (stomach abdominal wall urinary bladder) showed a much more marked local reaction than the organs which have no such connection (large intetine uterus) (Maneokow)

Adie W J Dott N Dodds E C Cairns H and Others Discussion on Diseases of the I ftuitary Body Proc Roy Soc Med Lond, 1929 xun 201

Apre discussed pituitary tumors according to the statoing reactions of the cells He classified them as granular and agranular adenomata The former have acidophile and hasophile cells. Adie stated that there is a rough agreement between the cell structure of the tumor and the symptoms hut no rigid formula is applicable to all cases A tumor may be large and cause failure of vision but may not pro duce demonstrable glandular symptoms Persistent gly cosuria occurs with granular adenomata only and usually in advanced cases A knowledge of the course of the disease is a guide to the proper treat ment of all pituitary lesions. Surgery is indicated only to relieve headache and conserve vision. In acromegaly \ ray therapy should be tried Until substitution therapy is better developed surgery is not indicated in cases of glandular disturbance

Adenoma of the anterior lobe without acromegaly is the most common and by far the most important prituatry tumor. It is an agranular adenoma. The cardinal sign is loss of vision there may be no other sign. The tumor associated with acromegaly is usu ally a simple granular adenoma of the anterior lobe.

The diagnosis of pitulary disorders may be very difficult. Pitulary tumor should be suspected in every case of failing vision without obvious cause. Tabes and pitulary tumor with progressive policies atrophy may be differentiated by the Argyll Robert son phenomenon. Third in frequency are tumors arising from the re-

mains of Rathke's pouch and from groups of cells on the stall. These are practically the only neoplasms that occur in childhood. Their symptoms differ according to the type size and location of the tumor A correct diagnossis is usually made because of the finding of calcification of the Cyst wall in the

roentgenogram These tumors are relatively unfa

Dubetes insipidus is an important mandersation of pituitary disease. It search nature and the mechanism of its production are not understood but it is known that the condition may result from lessons of the pituitary, body as well as lesions of the hypothaliamis. The further elucations of this and other hairmis. The further elucations of this and other approach that the continue of the continued of the continue

Borr discussed the surficial types of pitulars, disorders the treatment indicated and the results of treatment. He described seven cases as examples of the different types of disorders. He stated that evidence now seems to show that cosmophite cells are dencemed with growth and basophite cells with sexual development and activity. hence there is need of revising the nomenclature according to the cell

He advocated radiotherapy for early adenomata and surpeal ruled to pressure when vision is impaired. The transsphenoidal approach is best for simple adenomata and the transirontal approach for cases with intracranial expansion. The results depend upon the degree of advancement of the disease but on the whole are encouraging and satisfactory.

and on the second of the secon

Lextrow stated that for several veans he had been of the opinion that pitutian extracts contain at least two different substances. This theori has provided control to the treatment indication of vasopression and correction. From a trial of several pitutian; when the several pitutian is case of diabetes inspired in the concluded office than older preparations and that filtering decreases the value of the extract.

CREMENTE discussed the pathology of the eputhelial tumors of the putuars and after tracing the embreouse development of the putuarty bod. Using Duffys classification he grouped the suprapitutary epithelial tumors as (1) cysts of Rathies pouch and (s) cramopharia geal duct tumors which include (a) papillary cysts (b) admantinomata and (c) spual celled or practice.

ternstics of each group

CARE'S discussed differential points from the sur
gical viewpoint. He stated that while surgers to
necessitated in some cases to disturbances of inter
nal secretion it is indicated in the largest group by
so called naghborhood signs viz optic atroph
hemianopsia and enlargement of the sella turicia
In the former group actioningals may be caused by a

suprasellar growth and removal of the tumor results favorably. Froehich's syndrome may result from several distinction typical lessons in some cases the treatment is surgical but in most it is non surgical Suprasellar cists are differentiated music by the calculication shown by the X-ray (15 per cent of cases)

Cases of suprasellar meningiomata are charac terized by hitemporal hemianopsia optic atrophy a sella turcica of normal size and absence of endorine symptoms Cases of 'meningioma en bluque show optic atrophy a defect in the visual fields a chance in the shape of the sella turcica and undateral exoph Ghomata of the optic chiasm cause obesity polyuria and polydinsia in addition to the other signs of pituitary tumor the sella may be eroded forward and the visual disturbances may be entirely out of proportion to the disk changes Gliomata of the third ventricle differ from those of the optic chiasm in that they produce early papil lerdema from hydrocephalus and do not cause tem poral hemianopsia. Cerebral aneurism may produce the signs of a pituitary tumor. The sella turcica may be enlarged by the pressure of a secondary by dro-The visual fields should be examined early

PICE WORTH showed a large number of shdes illus trating the relationship of sphenoidal sinus infection to disorders of the pituitary gland in cases of mental disorder.

GRAVES pointed out four symptoms in mental cases which seem to have a direct relationship printitiars function (1) general fots of muscle for (1) disturbance of the perspheral circulation (pallor canonas) (3) disturbance of inuttion (emissions obeatt.) and (3) disturbance of the reproductive mechanism (amenorthrom).

ARBERT'S CRAWFORD M'D

Atoin II The Clinical Development and Treat ment of Abscresses of the Gerebrum and Gere beitum of the Encephaltuc Type (Consul Trainson sur Lévolution clinique et le fraitement des abscis du cerceau et du terclet forme encéphaltique) Lyon dur 1929 x 11, 203

Following a report of two cases of absces of the cerebrum and one case of abscess of the right lobe of the cerebellum the author di cut es certain points in the diagnosis and treatment of brain abscesses regarding which there is a lack of agreement.

In Jun's opinion the classical picture of signal of general infection increased an internal pressure and incahangs open services and internal pressure and incahangs open services and in the diagnosis than a discrepance between the pulse and the temperature. A sign of real value which is rarely mentioned to report an extra cases, of sever supporting war mounds Signs of intracrimal hypertension are always per sit but in the beginning they are often transitory and unstable. Headsich is significant when it is sociated with other is updoesn. Its intensit is more

unportant than its localization I is almost always accompanied by psychic distributances, even in am bilatory cases All of the author's patients have basen torpor and apathy. Slowing of the pulse is an excellent sign but is intermittent and requires nu merous examinations for its determination. Exzamination of the eyegrounds often shows signs of inflamination of the dajacent brain tissue, but some times these signs are lacking. Localizing signs are lacking to the control of the con

The primary lesions should be treated first the source of infection being removed so far as possible At a second operation puncture should he done to find the pus and the abscess should he opened and drained Drainage should be continued as long as necessary, and the patient kept under careful ob servation. There has been a great deal of discussion in regard to the method of drainage. The author thinks drainage should be accomplished by free cra meetomy, the diseased brain being allowed to berm ate through the wound and drain itself. The open ing in the skull should measure at least 6 by 6 cm and a small erucial incision should be made in the meninges The day after the opening is made the diseased brain tissue will protrude through the wound The wound should be enlarged progressively as much as is necessary to prevent strangulation and gangrene of the herniated brain. Aloin follows the development of the hernia and incises enough to ef fert decompression. Handling of the wound should be reduced to the minimum. The author uses dress ings of gauze covered with sterilized vaseline which allow the secretion to escape and prevent the forma tion of adhesions The herniated mass of brain tissue continues to function As the hermin of the brain is a defense measure the tissue should not be excised This method of drainage by exteriorization of the in flamed hrain tissue greatly improves both the im mediate and the late prognosis

AUDREY G MORGAN M D

PERIPHERAL NERVES

Solieri S Neuralgia of the Median Nerve Caused by a Supra Epitrochiear Process (Neuralgia del nervo mediano da processo sopra-epitrochrare) Chir d organi di merimento 1020 avi 171

The suyas entrochlear process is a small bony formation which develops admortanely on the lower part of the inner surface of the humerts held the succession of the superstance of the s

case in which it caused intense pain in the area supplied by the median nerve. The patient was a man mineteen years of age of a low type with eyebrows meeting in the middle of his forehead a protruding jaw, and darwinian tubercles. The process was on the left arm 6 cm above the bend of the elbow. Its tip was blunt and directed forward downward and mward. The pulsation of the bumeral artery could be felt just inside it. The right arm and the rest of the salecton were normal. Roentgen examination showed that the bone of the process was less compact than that of the shaft of the hunerus.

Resection of the process was followed by immediate related for he pain but in ast months a recutrence developed. Removal of the newly formed bone at a second operation was again followed by related of the recursalga. Two months after the second operation the patient was still free from pain but roentgen examination showed the formation of an incompletely essified lamna of bone

The author thinks that the recurrence developed because be detached the periostrum over the process and replaced it after the operation. He concludes that the process should be removed with its perios teum and the fibers of insertion of the pronator teres.

AUDREY G MORGAN M D

Leinati F. Reunion of Perlipheral Nerve Stumps After Lesions with Large Losse of Subatance (La munone a distanza dei monconi dei nervi pen fenci nelle istenom con forte perdita di sostanza) Chir d'organi di motimento 1939 xiv, 152

In experiments on twenty four dogs the author removed up to as much as 3 am of the scatter nerve and substituted dog tendon for it. He found homol ogous tendon to be a good substitute for cargut and silk because it does not cause an inflammatory reaction it is more resistant and more readily absorbed than catgut and when the defect measured no more than catgut and when the defect measured no more fibers and brought about the formation of mere fibers and brought about the formation of the peripheral stump.

The histological and trophic results in Leinati s experiments were much better than those obtained by bedinger a method but the functional results during the observation period of ten months were no better than those obtained with the methods in common use

Audent G Morgan MD

SYMPATHETIC NERVES

Leriche R and Fontaine R The Rôie of Cica trization Neutromata of the Sympathetic in the Remote Postoperative Results of Sympathee tomies (Sur le rôie des névrouses de cicatination du sympatheque dans les suites post-opérationes élon gnées des as impathetionnes) J deckir 1929 2221, 252

A regeneration neuroma has never been found in the adventitia after penarterial sympathectomy. After three or four months the nerve network of the adventitia is completely reconstituted. The regeneration occurs at the expense of the Remal, fibers

As Langles found that the cersical sympathetic functioned perfectly within less than a month after it had been sectioned the authors studied only cases in which the extent of the resection excluded all possi bility of regeneration. They investigated the effect of resection of the sympathetic chain and of peri arterial sympathectomy They found that in dogs and rabbits resection is followed regularly by the formation of a neuroma which is more or less marked and in all respects analogous to the neuroma follow

ing the amoutation of a spinal nerve Nikolaieff reported that in dogs the adventitual network takes three months to regenerate

On two occasions the authors performed a second periarterial sympathectomy six and fourteen months respectively after the first one and on the same side as the first one. In both cases the vascular effect of the second operation was as pronounced as that of the first. On microscopic examination the sheath removed at the second operation was found to be formed of dense connective tissue containing numer ous Remak fibers irregularly distributed. However the histological appearance is not an accurate criterion of the functional value of regenerated fibers

The authors report two chantal cases of neuroma formed after section of the rams communicantes of the stellate ranghon and abiation of the superior cervical ganglion. In one it caused an extreme ptosis which was relieved only when the patient turned her head to the left the side on which the intervention was done and a sensation of burning in the eye so intense as to prevent any work requiring close attention. In the other case it can ed a return of the crises of anging pectoris for which the opera tion was done. Removal of the neuroma resulted in a cure in each case. Neuromata forming after section of the sympathetic are usually silent but endanger the sucre s of the operation

MISCELLANEOUS

The Innervation of Streated Wilkinson H J Muscle Med J Australia 1929 11 768

The author has undertaken a general and ex tensive survey of the innervation of the striated muscle in representatives of the principal tetrapoid groups namely amphibia reptilia the lower mam mals and man His purpose is to throw more light on this problem and particularly to seek evidence in support of Hunter's theory that one group of muscle fibers is supplied by somatic nerves and another group by sympathetic nerves

The tissues were stained by the intravital meth slene blue method of Ehrlich and by the gold chloride method of Ranyser with modifications in each case and were mounted after teasing cutting and pressing The findings are shown by photo-micrographs In addition to the literature William son has studied the laborators material of Boeke Agduhr and Bielschowski. He summanies this article and his conclusions as follows

2 All muscle fibers are innervated solely by somatic nerves that is cerebro punal perves Hunter's hypothesis based on the work of Kulchitsky is

therefore untenable

. Terminations en grappes that occur in lowe vertebrates may be either immature form of motor terminations or afferent not sympathetic endings as was formerly thought. The observations on these terminations seem to suggest that the bead like ends of the terminal branches of an azone represent the growing ends of nerves

3 The muscle spindles are found to have both sensory and motor innervation and the comati motor unnervation of the intrafusal fibers both in the lower vertebrates and in mammals is confirmed. 4 Vegative finding are reported with regard to the sympathetic innervation of strated me, we fibers

and a criticism of Booke's and Agduhr's original preparations is given

5 The view is advanced that in striated muscle

tissue sympathetic ner er supply only the b'ood vessels and are concerned only with regulation of the circulation

6 The possible mode of action of the sympatheti

and vasodilator nerves is also described

7 The plurisegmental control of muscle fibers is

discussed and new evidence is presented

In an appendix there is a discussion on the inner vation of the gut and the coutrol of penstalus KNUT H HOTCK, M D

SURGERY OF THE CHEST

CHEST WALL AND BREAST

g E S J Postoperative Fat Necrosis of the Breast J College Surg Australasia 1929 11 233

In the case of an obese woman with large pendium streams a mammary tumor was removed and microscopically diagnosed as 'pre cancerous mastitis After healing two hard, irregular, paniled tumps appeared in the scar just below the skin These were adherent to the skin but free from the deeper tissues. The impole was retracted. The

breast was amputated

Microscopic study of the nodules showed the typical picture of traumbte far necrosa degener ated material fatty and and cholesterol crystals nound-cell infiltration fibroblastic and endothal proliferation many 'fetal 'fat cells and two types of gaint cells—a foreign body type with large of gaint cells—centrally placed and a lat gaint cell type with a more definite cell outline, abundant proto plasm contaming fat, and fewer small round darkly staining mucles.

There were therefore two degrees of changes involving the fat tissue of the breast (1) a true traumatic fat necrosis with death of the adipose tissue, and (2) a chronic inflammatory change with hyperblasis of the fat cells resulting from some

ırritant

An analysis of the pathological progression in all acts of lat percosis demonstrates that necrosis due to injury of trissie occurs first. Secondarily, fatty caids and cholesterol set up a reaction of chronic inflammatory and proliferative changes. This is collowed by repuir and replacement of the fatty tis such by fibrous tissue which results in hard modules and implier critication. J Dawker Witarses M D

Marsh M. C. Spontaneous Mammary Cancer in Mice. J. Cancer Research, 1929, xm, 313

This stude is based on a study of spontaneous manuary cancer rubred in the allows house mouse for a period of years at the New York State Institute for the Study of Malkmant Disease. The findings of such studies show that the tendency to develop malgnant tumors is a very fundamental and power ful one which is resistant alike to measures to dimuse it if and manuares to increase it. Its exhibition in the state of the properties of the state of t

Marsh came from the Lathrop-Loeb stock which produces only adenocarcunoma of the mammars, gland in the female The males transmit the tend ency, but do not develop the tumor In Strain 3.

tumors developed in from 85 to 93 per cent of the females. They appeared between the fifth and the twentieth month of life and reached their highest modence in the eighth month. When the females were prevented from breeding the incoplasms occurred at a much later age period and their incidence was reduced in the maximal evenled in the control of the females of the control of the country to function to breeding.

The maximal (corrected) incidence of tumors in Strain 3 was 04 per cent. There was a diminution of tumor yield when certain foods were given but no conclusions were reached as to which factors were of

importance

Inflations is an adenocationoma of the mammaly agind. About half of the mice had multiple tumors. The medical of the mice had multiple tumors were accredited to one host. In one third of the mice the tumor discemnated. The dissemnation occurred almost always to the lungs occasionally to the liver or lymph nodes and rarely to the spleen. The per centage of mice having metastases was increased by reneated Vigiorous massage.

In Strain 1 which was seveloped from the same the strain 2 which was seveloped from the same thek as Strain 2 but differed physically in being thek as Strain 2 but differed physically in being thek as severe and severe severe severe the severe sev

Tumor origin is favored by complete nutrition and is inhibited by mahultition and intercurrent disease (parasitism unidentified infections etc.) Tumors develop most frequently in the most robust, heaviest, and fully nounshed individuals.

All mice harbor nematode parasites in the intes

tine A strain bred free from helminths showed no diminution in the incidence of spontaneous mam mary tumors HARRY C SALTISTEEN M D

Pianese F Is the Histological Picture of So Called Carcinomatous Viastitis Always the Sarne? (La con detta mastite carcinomatous presents sempre lo stesso quadro istopatologico?) Arch di estet e fune: Paya xxxvi 651

The term "carcinomatous mastitis' is used to in dicate a form of tumor of the breast the chief char acteristics of which are a very rapid clinical course and symptoms which are quite like those of an in fammation I his tumor is rather rare. It is seen u ually in women between thirty five and forty years of age. However childbearing and lactation are not the cause as it may develop in their absence. It occurs in an actue and a subacute form. The former kenerally ends in death in from my weeks to two and half months and the latter is fatal in about ten months. In both there is apt to be a rapid recurrence in the other breast after operation.

There is considerable disagreement as to the hasto logical nature of this tumor. According to the most kenerally accepted theory, the neoplasm is a care moma of very rapid development made up for the most part of very atypical epithelial cells. The cells seem to be of an undifferentiated up se and instead of forming tubes as in the ordinary type of carrinoma of the breast they assume as spherical form with the value of the properties of the

In na attempt to settle the que 100n the author made a very circulul study of the case of a woman thirty nine vears of age who had a typical acute carcinomatous mastiti. Remosal was followed by recurrence in the other breast and death in profound cachetia in a little over a month. Pannew de cribes the instological findings which were those of pertibents and concludes that tumors of different types of structure max cause the chinical picture under discussion.

Attarpara, G. Wossen, M.D.

Keynes G The Treatment of Primary Carcinoma of the Breast with Radium Icia radiol 1929 x

During the last five years the author ha come to regard treatment of primary carcinoma of the breast with radium needles as preferable to operation in

the period from August 1924 to April 1929 minety patients were treated with radium

The dosage emplored by Keynes is relatively small (up to 100 mgm) and the time of exposure is long (exec days or more). The radium is distributed in two main areas (?) the primars growth and (?) the kimphatic dramage including the pectodal for the radius of the results of the radius of the results are and interocal spaces. The needles are miserted through small stab wounds under introus-oxide oxide grean ansisthesis.

The effect on the primary growth is usually comline after four months. If the tumor has not entirely disappeared at the end of that time it may be necessary to consider further treatment operative or radiological. An extensive operation is bever required. As a rule no operation is performed. For larged lymph glands usually dasppear under radium

treatment

In the first fifty of the cases reviewed histological proof of the nature of the growth was obtained but in the other, no specimen was taken as it has been found that cutting into the timor sometimes results in the appearance of an implantation growth Histological evidence of the effect of radium on the tumors has been obtained

Twenty three of the mnety patients whose cases are reviewed were treated recent). Of the remna ring saxty seeken forty one had an operable tumor A good result was obtained in forty five cases twelved which were inoperable. Patients have remained apparently cured up to four and a half years after the treatment.

kahn M On the Question of Pre Operative and Postoperative Y Ray Treatment of Breast Carcinoma Radiology 1929 xm 422

In a series of 148 cases of carcinoma of the breast with extensive involvement of the glands at the time of operation it was found that surgery failed to cure more than no per cent for five years and that so far as cure nas concerned the addition of postoperative N ran irradiation was of no maked benefit. However it has been possible by N ray treatment alone or in combination with collectal lead to relieve pann and produce recalification in

metastatic bone lesions Pain is an indication for Yay treatment whether metastasis can be demonstrated or not. Deep irradiation is of value chieff after metastasis staken place. It is then indicated first for the relief of pain and second for the prolongation of life. It is the second pain to the prolongation of life. It is the second paint of the prolongation of life is the second paint of the prolongation of life. It is soon as possible. The arrest of destinction and recalcification may not be demonstrable for period ranging from several months to a year or two. It is generally advasable to have the patient return a intervals of three months for observation and further intervals of three months for observation and further methods.

treatment
BLOOGOOD in discussing this report stated that
there is no evidence that irradiation has doed to the
there is no evidence that irradiation has doed to the
thin the supportant for the public and the profession to
know that irradiation with the V ray or radium or
both is the only it reatment that offers any refer
when recurrence or metastasis produces pain and
stoomfort. In no case, of untrasenous itself term
and there was no evidence that there is all
the states surgerts offers model.

I FRANK DOLGHTA MD

Schmitz H The Five Year End Results in Car cinoma of the Breast Ridiology 19 9 ml 302

Schmitz reviews 250 carcinomata of the breast One bundred and seven were primary and 143 were recurrent. Good result over a period of five years were obtained in 27 1 per cent of the cases of primary tumors and in 16 85 per cent of those of recurrent tumors. The treatment was as follows

Primary tumors (2) ingle limited freely movable growths—surgery (2) multiple immted freely movable growths with or without inferior avillary gland moolement—surgery followed by irradiation (3) movable tumors of the breast with superior axiliary giand invasion and adhesion to the skin or the pectoralis muscle—irradiation followed by surgery (4) ngid fixation to the pectoralis muscle or axiliary structures or ulceration of the skin or supraclavicular node involvement—palliariae treat ment and irradiation to check the growth and relieve pain.

Recurrent tumors (1) local freely monable recurrence retaination followed by surgery, (2) reponder freely, movable availar, gland recurrence and atton flowed by surgery (3) local and amound but forely on solle recurrence - translation followed by surgery. (4) freel focal or regional recurrence or ulceration of the slain or supraclaviously gland move/benneth—pallative terastment and irradiation to attempt to check, the growth or relieve the number of the slain of the

Irradiation should not be given after operation until complete healing of the operative wound has occurred. After irradiation operation should he delayed for from eight to ten weeks otherwise primary union of the tissues will be delayed and infection will be more apt to occur.

FRANK B BERRY M D

TRACHEA, LUNGS, AND PLEURA

Hudson W. A and Jarre H. A. Functional Studies of the Tracheobronchial Tree with the Aid of the Cin Ex Camera. Bril J. Radiol. 19 9 II 533

Mer a review of the literature on the function of the trackeobronchial tree the authors briefly describe a new camera the Cin Ex camera by means of which they are able to take from one to four typ preture per second. Their studies were made on dogs a normal human being a patient with bron chectasis, and two natients with asthme.

chectass and two patients with aithms.

They state that \(\times\) representation of the made on sim bands as fast as from one to four per second with the ordinary \(\times\) ray laboratory requipment. They believe that in certain cases functional studies made in this way, will add in the selection of these patient measures. They conclude that there is a true peristatic mechanism in the trachedworchost tree which is disturbed by long standing bronchal infection and is intensified in conditions of an asthmatic nature. They found that in normal persons ipposed in forced into the already by a suppressed cough and that in patients with Euloste 2 and that in patients with Euloste 2 Gastra MD.

Macklin C C Functional Aspects of Bronchial Muscle and Etastic Tissue Arch Surg 1929

The wall of the entire bronchial tree is made up of a smooth muscle network infiltrated with clastic tissue. It is a continuous branched contractile move-elastic tube which is built up in a characteristic mover and extends throughout the solid systematic minner and extends throughout the utilities system of airways from the trachea to the fine terminal bronchoiles and alveolar dutts and the

mouths of the alveole but not into the alveolar walls. The alveols open into the alveolar ducts like curs with rims encircled by the muscle and elastic 6hers which suggest a sphincter that never com plately closes but merely widens and narrows. The alveolar walls are free from muscle fibers except a very few which dip into them from the alveolar duets. The elastic connective tissue, like the mus cular tree is also a continuous system from the lam ur to the alveoli but it does not terminate at the alscolar mouths Fine fibers and delicate strands are continued on into the alreolar walls themselves The direction of the muscle fibers as well as that of the electric fibers is mainly circular but in many instances is oblique or longitudinal Such a system a obviously built to permit changes in the length

and the width of the individual tubes The muscles of the bropchial tree are involved in changes of length, changes of width, and peristaltoid movements Examination with the \ ray broncho scope or other means reveals an elongation and undening of the air tubes on inspiration and a short ening and narrowing on expiration general principle underlying ventilation of any tubular system. The hing could not be inflated if the bronchial tubes were rigid. Movement of the bronchial musculature is indissociable from respira tion Inspiration is the inflow of air under atmos phone pressure. The air tubes stretch and dilate and the air chambers fill. The alveoli change from the shape of a cup to that of a saucer simulating the opening of a sphincter On expiration the action is reversed consisting of a progressive contraction be cioning at the periphery of the air system and sween ing toward the traches the air volume being thereby diminished Therefore in this action the mio elastic bronchial tree functions as an active deflat ing agent

As demonstrated by others the hronchial mus culature also engenders a peristaltoid movement in the form of a continuous wave travelling from the periphery toward the center and freeing the tubes of hamfull equidates

The nervous control of the bronchial musculature comes from the vagus and the sympathetic system and consists of both dilator and consists of it forms a part of an elaborate reciprocal system which brings about a coordination between the intra pulmonary and extrapulmonary respiratory musculature.

The article is supplemented by numerous illus trations of the author's material and that of Baltis berger (Ztschr f lnat u Entaickl 1921, lkt 259)

J Devizi William W D.

Phillips E W and Scort W J M The Surgical Treatment of Bronchial Asthma Arch Surg

Mobilization of the chest wall and within the past six years surgical attempts to influence a possible nervous control of the paroxysms are the measures available in bronchial asthma after the failure of medical treatment. Three factors have been considered as possible causes of the decrease in the caliber of the finer air passages with its resulting dispinca (1) spasm of the intrinsac insides (2) mucosal swelling and (3) abnormal secretion. It is mucosal swelling and (3) abnormal secretion. It is the small bonded the partial sections is a fine to the small bonded the partial sections in the partial small shormar is not definitely known.

samin dispurats a not demently, known or The rolle of the extransic network of the lung in an asthmatic paroxysm is no clearer than the local condition in the air passages that produces the stenous Their seems to be a hisvatem a balateral nerve supply to each lung the tracts of such are carried through the vagus and the sympathetic systems. If the large was the man honochomotoche where the tractice theory without many supporting feet a start the theory without many supporting feet a is that the sympathetic fibers are the afferent side of a reflex are.

Operations on the extransic nerve supply method unlateral and balteral cervical sympathetism, and vagotom. In a few cares unrelieved by operation on the other relief bas resulted from operation on the other system but the majority of secondary operations have been unsuccessful. Cases in which the dyspores is due to earliant insufficiency or glandular to the control of the control of the control of the control of the operation.

Kuemmell in 19 6 reported the isolation and section of the posterior rain which according to Braeucker's experimental work removes all extrinsic control of broncholar constriction in one lung from both systems and both sides So far as could be ascertained this has been done only three times and bas

bad good immediate results
Operations on the chest wall consist in immobilization of the wall of the emphyrematous type of chest
freund who first introduced the method perform
a unitarial cheatherstony to allow increased expaitable that the control of the chest of the chest
that the chest of the various measures used to
prevent in regeneration electrical and chemical
cauternation seem to be the most rational

Miscellaneous procedures include surgical treatment of nose and throat infections and the correction of tracheal compression by the removal of an enlarged thy ord. Reentgen therapy may influence socalled bronchial asthma by reducing the size of enlarged tracheolorochial glands. Splenectom, has been suggested by Henek but no information is available concerning this procedure.

Addition contenting this possibility of the Approximately so per cent of the severe cases of branchal asthma have been definitely benefited by surgical procedures and a few have been cured. At though interruption of either the 14gus or sympathetic system alone has resulted the considered more logical to sever both surgicial at the considered more logical to sever both surgicial at the considered more logical to sever both surgicial as the posterior pulmonary plexis. The suthors rate a case in which the latter method was used and improve ment has been present for eight months. Operation

on the autonomic nervous system is still in the er permental stage Mobilization of the chest wall in suitable cases should precede any attempt at intervention on the autonomic system

E S PLATT M.D.

Corollos P \ and Birnbaum G L Bronchisi
Obstruction Its Relation to Atelectass,
Bronchopneumonua and Lobar Pneumonia
im J Rocatenol 19 9 xxx1 401

Bronchal obstruction when complete interfers with ventilation circulation and free draining of the pulmonary care corresponding to the obstruction broachus. At electasis circulation distributes and plumonary cellulatis result. The chincal symptoms and plus scal signs of broachial obstruction are van able but there are definite and constant chan es which can be reliably demonstrated by roentgen ography and bronchoscoro.

ography, and bronchoscopy, ography, and bronchoscopy, of The anthose carried out years of experiments on The authors carried out years of the state of the state

is straining similarity of the roentgenograms in both conditions was demonstrated. There was hard ness of the involved lung with elevation of the dia phragm on the involved side and displacement of the mediastinum toward the affected lung Extrac tion of the balloon (after from six to twenty four hours) was followed by acration of the affected lung and gradual return of the diaphragm and mediastinum to normal Exactly the same phenomena oc curred in the spontaneous cure of the experimental pneumonia This parallelism extended to other sions and symptoms and to pathological autopsy finding The principal difference was a general toxicity in the animals with pneumonia which was almost entirely absent in the animals with bronchial obstruction Upon these similarities the following theory of

postoperative atelectasis (pneumonia) is based Anasthesia reduces the vital capacity and causes stasis and the accumulation of bronchial secretion printation of the bronchial mucosa and secondary infection 1 e bronchitis The obstructing exudate is then either expelled from the lung (by cough etc.) or complete obstruction of the bronchus takes place The trapped alveolar air is absorbed and atelects sis follows Cellulitis and pneumonitis progress In pneumonia the same pathogenesis is found. In addition a severe toxicity will appear because the infecting organism is a newly introduced pneumococcus of high virulence instead of the saprophy uc bacters of low virulence which are usually present in branchitis In both conditions cure results by crisis nr lysis as soon as the lung is drained by aeration

This theory puts lobar pneumonia in the same class with other infectious processes occurring in closed and undrained spaces. The objection to it. that frequently at autonsy no bronchial obstruction is found in atelectasis or lohar pneumonia, is anen ered by the evidence from many bronchoscopic observations in human cases in which the bronchus corresponding to the affected area was constantly found occluded by exudate

In direct contradistinction to the classical con cention, roentgenograms of massive lobar uncumonia in man give proof that in unilateral nneumonia the more extensive the involvement and the greater the number of lobes affected the more marked will be the displacement of the heart and trackes toward the affected side and the elevation of the bomo lateral diaphragm. This means that the consolidated lung is smaller not larger, than the normal Proof of this is given by the fact that when the traches of a pneumonic dog is clamped before the thoracic cavity is opened and the lungs heart and traches are then removed together the consolidated lung is always smaller than the healthy lung

The circulatory changes in a telectatic and consoli dated lunes were studied by means of injections into the jugular veins of living animals. Indized oil and India ink were used. Roentgenograms after the injection of jodized oil give not the slightest evidence of impairment of the arterial tree in the lung whereas microscopie sections of lungs injected with India ink showed impairment of the capillary circulation proportionate to the degree of alveolar collapse or shrink

In both atelectasis and pneumonia there are simi lar disturbances in the gaseous exchanges-an in crease of carbon dioude in the attenal blood due to insufficient ventilation. Hyperventilation with a mixture of from 5 to 10 per cent carbon dioxide in air seems to have a specific action not only in stimulat ing the respiratory center, but also in reducing the pli of the exudate and thus interfering with the development of the pneumococcus

It is claimed that lobar pneumonia is a pneumo coccie atelectasis due to bronchial obstruction by mucous exudate infected with virulent pneumococci Atelectasis (postoperative pulmonary complications) differs only in the type of low varulence organism. Pheumococcus Group I\ The evolution of the dis ease syndrame is bronchitis-obstruction-itelec tasis-pneumonia

A bibliography of 177 references is appended 1 DANIEL WILLERS M D

Corollos P N and Birnbaum G L The Circulation in the Compressed Atelectatic and I neumonic Lung (1 neumothorax Apneumatosis Pneumonia) Arch Surg 1929 aix 1346

In this article a new method for the study of the arterial and capillary circulations in the lung is pre sented-intrajugular injections of iodized oil for the arterial circulation and intrajugular injections of Ringer's solution and India ink for the capillary

exemistron. As the result of their studies with this method the authors draw the following conclusions Currelation and ventilation of the lung are

parallel functions, when ventilation is impaired our

culation as decreased and nice tersu

In the compressed atelectatic (appenmatic) and consolidated lung the circulation is progressively impaired This impairment is due to and reg wlated by the degree of collapse of the alveoli and not to capillary thrombosis or capillary com pression by alveolar exudate as has been believed

2 Lobular pneumonia is comparable to lobular atelectasis and lobar pneumonia to lobar atelec tasis. The circulatory changes are exactly the same and are related to impaired ventilation due to occlusion of a lobular or lobar bronchus with exidate Their chinical severity depends on the virulence of the microbes concerned

4 In nneumonia and atelectasis strikingly similar nictures are obtained so far as the evolution

of circulatory impairment is concerned

s Only the capillary circulation is involved The circulation in the pulmonary arterial tree is not affected The capillary impairment is not complete

Changes observed in the size of the alveoli in lobar pneumoma offer new proof in favor of the view that bronchopneumonia and lobar oneumonia should be considered as the infectious variety of patchs or lobar atelectasis respectively

EMIL C ROBITSHER M D

Duke C. G. and Sosman, M. C. The Doctural Treatment of Postoperative Massive Atelee tatle Collapse Surg Gynec & Obst. 1020 xbr

This article is based chiefly on a study of four teen cases of postoperative massive atelectasis occurring at the Peter Bent Brigham Hospital Boston during the period from 1028 to rock in chisive

The condition develops with about equal fre quency in both sexes and has very little relation to age In ten of the cases reviewed it occurred in the first three months of the year and in six of these it developed in March The type of operation seemed to play no part in its causation. In eleven cases the anasthesia was induced with ether alone, and In the others with nitrous oxide and oxygen sun plemeated by ether In thirteen cases the condition occurred in the right lung and in ten of these in the lower lobe of that lung

The authors discuss the mode of production of massive atelectasis the morbid anatomy symp toms physical signs complications relapses clinical varieties prognosis diagnosis prophylaxis and Brief case reports are given together treatment with roentgenograms made in five cases

The following conclusions are drawn

I Obstruction to the air passages is essential for the production of the condition The obstructing material is thick tenacious mucus

Usually many secondary factors are involved such as a decrease in the vital capacity an in creased cough reflex infrequent postural change during and after the operation and limitation of

thoracic and abdominal mobility by the operation 3 The condition is not a reflex nervous phe

потевов 4 It does not occur contralateral to the side operated upon unless the patient hes on his side during the operation as in renal operations

5 In the treatment, the Sante maneuser is very efficacious

- 6 Hypercentilation of the lungs with carbon dioride and organ should be done at the end of oneration and during the first forty eight hours thereafter
- ? The patient's position should be changed frequently during the rist few days after the opera tion and the use of sedatives should be restricted
- 8 The mortality from the condition is very fou CARL K STEINER MID

Bérard and Lardennois The Surgical Treatment of I ulmonary Tuberculosis (Traitement chrurgical de la tuberculose pulmonaire) Presse med Lar 1929 XXX\11 1332

The authors limited their study to operations per formed to collapse the lung-thoracectomy phrenic ectoms separation of the panetal pieura and ani colesis About 5 per cent of ea es of pulmonary tuberculosis are suitable for surger) The results depend upon the degree of collapse obtained and the tendency of the pathological tissue to undergo re

traction Thoracoplasty is rendered less dangerous if it is done in several stages and in a sanatanum. It may be performed only if the patient has maintained good general resistance, which is seldom the case when the condition is active but is often the case in fibrin ous mactive tuberculosis of long standing. White pneumotherax may be employed during the active stage of the condition thoracoplasts must be de ferred until the infection has become omescent Uni laterality of the tuberculosis is a much more strict requirement for thoracectoms than for pneumothorax and phrenicectoms Phrenicectoms gives only partial collapse. It is rather an accessors measure On account of the greater latitude allow able as regards both undaterality of the infection and general resistance phrenicectoms is applicable in a much larger number of cases than thora coplast)

Thoracoplasty is indicated in cases of umlateral and mactive ulcerofibrous lesions in which pneumo thorax i impossible undateral fibrocascous tuber culosis and fibrous forms with hamoptysis in which the general rest tance is good also as a complement to abandoned or in ufficient pneumothorax Aeither age nor pregnancy is a contra indication operation gives its best results between the ages of filteen and forty years It is contra indicated by organic disturbances, especially cardiovascular in

sufficiency dyspinora cyanosis and laryngeal, renal and intestinal infections

The indications for phrenicectomy differ from those of thoracoplasty only in extent Phrenker tomy is valuable in cases of serious ulcerous lesions stabilized or not which develop with a ret actile tendency. It is indicated also in fibrocaseous or caseous tuberculosis of average severity when price motherax has failed and thoracoplasts 1 mapple able Strict unilaterality of the infection and good general condition are not necessary. Patients with fesions in the ba e are no better subjects for phrenic ectomy than those with lesions in the apex. As the success of the operation does not depend upon the degree of ascent of the diaphragm it appears that the immobilization of the lung plays a more important role than the reduction of its size. The authors consider phrenicectomy a preliminary stage in t tri thoracoplasty It serves also as a functional test of

recurrent hamopty is In 68 cases operated upon before January 10 9 including 39 treated by thoracectoms (2) of which were operated upon in several stages) and 31 t cated by partial thoracectomy very good results were obtained in 22 good results in 18 fair results in 7 and no re ults in a Eighteen of the patients died soon after the operation and as died later. The results in 6 cases are unknown Of 1 o phrenicectomies 53

the opposite lung and may sive results in cases th

gave positive results Hisenthal II Direct Prainage of Tuberculous Pulmonary Canties Arch Surg 1919 xix ribi

Until recent years the author considered unwive it not dangetous to open a tuberculous cavits of the lung, but espenence in three cases showed that the procedure may be free from hamorrhage and that the tendency toward the formation of a permanent fistula as an proportion to the degree of collapse of the walls of the cavity. The cavities may be drained directly through the wall of the chest or into an associated open emp ema cavity. Surgical openings into tuberculous cavities in the lung show a strong tendency toward spontaneous healing

THEIRAM E SHACKLETON M.D.

Cole D B and Johns F S Therapeutic Pul mon sry Collapse Arch Surg 1929 211 1193

Surgical intervention in pulmonary tuberculosis has for its aim comp " sinn of the affected lung to obliterate cavities and to put the lung at rest and aid its blood and hamph circulation. The ourcome depends largely on the election of the patients the type of collapse the time of operation with regard to the stage of the disease process and the amount of compression obtained

In cases of moderately advanced pulmonary to berculosis reviewed by the au hors pneumorhorax was followed by favorable resul s with few compli cations Of thirts patients with tuberculous pneu monia or exudative tuberculosis fourteen became apparently well and able to work ten recovered partially, and six died. Five developed pleural fluid, and three, empyema following the operation.

Parumothorax was used also in the treatment of fifteen patients with tuberculous abscesses of the lungs. By injecting small quantities of air at firquent intervals dramage was facilitated and the spread of the process was arrested. There were four complications of this operation. Theural effusion occurred in 15 per cent empsema less frequently and perural hock, and air embolism in two cases.

After the induction of the pneumothorax the patient was kept at rest in bed for two monibs or longer and fluoroscopic and roentgenographic examinations were made at frequent intervals

Them avalison was done in eighteen cases: Under local amsthesia a portion of the phrenic nerve measuring from 6 to ro cm was removed through an incason made along the posterior border of the stemocleidomastoid muscle or parallel with and just above the clavice. Improvement followed in textly all cases. None of the patients was roade worse by the operation.

Thoracoplasty was carried out in fifty one cases of more extensive pulmonary involvement. All of the patients were definitely benefited. The authors emphasize the importance of resection of the upper ribs and complete collapse of the apex.

I DANIEL MILLERS A D

Andrus W DeW and Wilson J D The Effects of Closed Pneumothorax and Phrenicotomy on the Cardiorespiratory Function Arch Surg 1949 px 1205

Dogs annishletized with barbital and rectal ether were subjected to expenimental study of their cardiorespiratory response to closed pneumothorax phremocroms, and sapotomy. Data were obstavate on the pulse rate the respiratory rate the tidal are of the respiratory rate the tidal are vidume (amplitude of respiratory) the oxygen consumption per minute, and the oxygen content of the arterial and venus bloods

It was found that a dog with an intact cardoreportation mechanism responds to a closed pursuonreportation mechanism responds to a closed pursuotionat of moderate degree by an increase of about 10 per cent in the pulse rate about 13 per cent in the respiratory rate about 20 per cent in the trafal into volume and about 65 per cent in the respiratory volume per minute. The amount of blood circulating through the lungs per minute is increased about 28 per cent and the pulse volume about 15 per cent 20 per minute and per contract of the pulse of the 20 per cent and the pulse volume about 15 per cent 20 per cent and the pulse volume about 25 per cent 20 per cent and the pulse volume about 35 per cent 20 per cent and the pulse volume about 35 per cent 20 per cent and the pulse volume about 35 per cent 20 per cent and the pulse volume about 35 per cent 20 per cent and the pulse volume about 35 per cent 20 per cent and the pulse volume about 35 per cent 20 per cent and the pulse volume about 35 per cent 30 per cent and the pulse volume about 35 per cent 30 per cent and the pulse 20 per cent and 20 per cent 30 per cent and 20 per cent 30 per cent 30 per cent and 20 per cent and 20 per cent 30 per cent 30 per cent and 20 per cent 30 per ce

In a normal dog a unilateral phrencotomy produces an increase of about 10 per cent in the pulse and respiratory rates about 25 per cent in the amount of blood flow through the laings and about 15 per cent in the pulse volume. The tridd lair volume and the recipratory volume are decreased from 35 to 20 per cent. Bilateral phrencotomy produces symptoms of beginning decompensation.

A pneumothorax experimentally superimposed in a dog subjected to unilateral phrenicotomy causes symptoms of cardiorespiratory decompensation

Bilateral vagotomy causes a decrease of about 50 per cent in the respiratory rate and an increase of about 150 per cent in the tidal air volume and 25 per cent in the respiratory volume per minute. The amount of blood flow through the lungs per minute is decreased about 5 per cent and the pulse volume about 9 per cent.

Tolerance to pulmonary compression by pneumo thorax is decreased following section of both vaging Descriptions, M.D.

Matson R C The Ejectrosurgical Method of Closed Intrapleural Pneumolysis in Artificial Pneumothorax Arch Surg 1929 XIX 1175

The author states that while adhesions are present in the majority of cases of pulmonary tuberculosis selected for pneumothorax treatment be has found that a satisfactory pneumothorax can be established in 40 per cent of the cases. In another 40 per cent the character of the adhesions will prevent the col lapse or compression of the lung necessary to provide adequate functional rest or closure of the cavities and in the remaining 20 per cent pleuritic adhesions will prevent any introduction of gas.

For cases in which no gas can be introduced the phthisotherapist has come to recognize the value of surgery in the form of phrenicotomy or thoracoplasty Ineumothorax will not give a satisfactory end

I neumothorax will not give a satisfactory end result if after several months trial, stereoscopie films reveal the presence of adhesions which are preventing sufficient collapse of the lung. In the treatment of such cases the author considers elosed pneumolists. During the past four jears 45 per cent of his cases have proved suitable for this operation. Electrosurgical methods have simplified the procedure and made it relatively safe. The control of bleeding is the most senous problem and requires a knowledge of the character of electrical currents used. Electrosurgical cutting is accomplished with out smoke and is followed by minimal tissue reaction. Window 2 Successfor M.D.

Welles E S Phrenicectomy in 300 Cases of Pul monary Tuberculosis Arch Surg 1929 xix 1169

At first phrenicectomy was considered best suited to basal lesions of the lung but later it was found to give good results more often in lesions of the loper lobe and the apex than in lesions of the lower lobe

Of the 300 cases reviewed by the author the operation was followed by improvement in 64 per cent

It was boped that by a careful analysis of the cases it would be possible to give a fairly accurate prognosis in a given case but this hope has not been retained. However reasonable assurance may usu ally be given the patient that the operation will do no harm, it it fails to result in benefit. In only 2 per cent of the cases retweed were the symptoms aggravated A few patients had a transitory annoying dyspines or temporary digestive disturbance and a few a persistent tachy cardia. The only accident in the series of cases reviewed was severance of the thoracic duct which occurred in a case

In 1 case a bilateral phrenicectomy was done in an effort to control persistent hiccough. After the oper ation there was no increase in the dispners and the

biccough stopped permanently

Exeresis is considered the operation of choice Cessation of movement of the diaphragm is of more importance than elevation of the diaphragm

WILLIAM E SHACKLETON M D

Holman E and Mathes M E The Production of Intrapulmonary Suppuration by Secondary Infection of a Sterile Embolic Area An Ex perimental Study Arch Surg 1929 217 1246

Pulmonary infected and non infected embolisms nere produced in dogs by introducing into the jugular veins lead shot with or without bacteria At various periods the animals died or were killed the lungs were injected with a hismuth and cum acacia suspension and roentgenographic and path

ological studies were made

Infected emboli invariably produced marked path ological changes in the parenchyma of the lungs auch as hæmorrhagic infarction pneumonitis and abscess formation Sterile emboli produced little gross evidence of their presence except in the pres ence of bacteramia or a suppurative process elsewhere in the body when secondary infection of the embolic area occurred. Injection of the bronchial artery with a roentgenopaque substance revealed marked dilutations of the branches leading to the embolic area This was considered to be of con siderable importance in the resistance to infection and the repair of destroyed tissue. The injected pulmonary artery appeared normal even in the presence of massive hamorrhame infarction I DANIEL WILLERS W.D.

Van Allen C M Adams W E and Hrdma L S Bronchogenic Contamination in Embolic Ab scess of the Lungs Arch Surg 1929 Est 1262

The authors report experiments carried out on dogs to determine the mode of reaction of the lung to embolic and bronchogenic inoculations and the effect of intrabronchial contamination on the char acter of a pre-existing abscess of the lung

It was found that the virulence and chromeats of embolic abscesses of the lung could be increased by the insufflation of infectious material into the bronchus The authors believe that this combina tion of embolic and bronchogenic moculation mas explain the pathogenesis of the obscure group of postoperative abscesses of the lung and that super inoculation by the aspiration of pharyngeal secre tions may be the factor chiefly responsible for the maintenance of postoperative and postpneumonic chronic abscesses of the lung and the recrudescence J FRANK DOUGHTY M D of bronchiectasis

Van Allen C M Adams W E and Hrdina L.S. Embolism in Bronchogenic Infection of the Lung Arch Surg 1929 11X 1279

In one group of experiments carried out on dozs the authors studied the effect of a sterile embolus of small size on the parenchyma of the lung in another group the results of intrabronchial insuffiction of infectious material and in a third group the reaction of the lung to a combination of bland em bolism and septic insufflation

They conclude from their findings that abscesses develop much more readily from embolic than from sutrabronchial snoculation of the lung and the lung is in general much more resistant to necrosis and suppuration than other tassues. The great vitality of the lung in progenic infections is due mainly to sts greater blood supply, and elimination of the pulmonary circulation as by embolism reduces the blood supply and tissue vitality to the common level This hypothesis is applied to explain the pathogenesis of postoperative abscess of the lung especially following sterile operations postpneu monic abscess of the fung and empyems and re lapses in suppurative diseases of the lung in general Hamorrhagic infarction may bave a similar origin J FRANK DOUGHTY M D

Flick J B Clerf L H Funk E H and Fatrell Ť Jr Pulmonary Abscess An Analysis of 172 Cases Arch Surg 1929 ht 1292

In 12r of the 172 cases of pulmonary abscess reviewed by the authors the abscess developed after a surgical operation The operations were (1) ton sillectoms in 97 (general angesthesia in 88 focal anasthesia in 4 type of anasthesia not recorded in 5) (2) an oral operation in 10 (general anesthesia in 7 local anæsthesia in 3) and (3) an operation on some part of the body other than the mouth and throat such as appendectomy in r.s (general anasthesia in 8 anasthesia not recorded in 6) In 43 cases the abscess developed after an acute in fection of the respiratory tract and in 6 cases it was attributed to an injury of the chest

The abscess was localized in a lobe in 79 3 per cent of the cases in 2 lobes in 19 5 per cent and in 3 lobes

in 1 2 per cent According to the authors experience the upper lobe is involved most frequently

The occurrence of cough and fever after an opera tion especially an operation on the upper respirator) tract should focus attention on the possibility of pulmonary abscess A diagnosis is established by the findings of physical examination \ ray exami nation and bronchoscopy The chief essential in the treatment is adequate drainage. In many cases the may be obtained by conservative measures which anclude repeated bronchoscopic aspirations great intervention is indicated when a cure is not effected within a reasonable length of time by the more conservative measures

The authors describe the surgical treatment in dicated in the various groups of cases

J FRANK DOUGHTY M D

Olch 1 1 and Ballon If C Experimental Abscess of the Lung Following Ligation of the Pulmonary Artery and Incision and Suture of the Pulmonary Parenchyma Arck Surg 1929 321 1585

In eight of ten dogs, ligation of the pulmonary artery to the right lower lobe of the lung and simple incision and suture of the pulmonary parenchyma of the corresponding lobe was followed by the forma

tion of an abscess of the lung

Following ligation of the pulmonary artery no appreciable increase in fibrous connective tissue in the ling was observed over periods up to four weeks. The corresponding lobe did not decrease in size and the alvoch did not appear smaller. Simple incision and suture of the pulmonary

parenchyma resulted in a sear which resembled a sear elsewhere in the body and was not followed by the formation of an abscess of the lung. Premicotomy performed on the corresponding side apparently in no way influenced the end result.

Varney P L. The Bacterial Flora of Treated and of Untreated Abscesses of the Lung Arch Surg 1020 My 1604

Twenty seven cases of chronic abscesses of the lung were studied with regard to their bacterial flora Twents one of the patients were previously un treated. In the latter the organisms found most commonly were streptococci fusiform bacilli bacil lus melaninogenicum and spirochates, streptococcus vindans was found more frequently than strepto coccus hamolyticus. In the treated patients the fusiform bacilli, spirochætes and bacillus melanino genicum greatly decreased in number or disappeared altogether coincidently with a relative increase in the hamolytic streptococci. The bacterial flora of ma tenal from chronic abscesses of the lung showed a remarkable similarity to that of infected tonsils cervical abscesses and diseased teeth and mucous membranes HORAND A Mckateur M D.

Davidson M Intrathoracic and Pulmonaty New Growths Lancet 1979 ccxvii 1181

Davidson states that statistics based on autopsy material from 1854 up to the present time show that there has been an absolute as well as a rel atto: increase in primary malignancy of the lung in recent years

Nothing more is known as to the cause of cancer of the lung than as to the cause of the clarer in general. The average age of persons with anner of the lung is fift years. The condition develops more frequently in males than in lemales and in white persons it in in colored persons. It is most frequent in Jews.

The most common malignant intrathoracic new frowths are carcinomata sarcomata and endothe lomata All carcinomata originate from the bron thal mucosa They are columnar celled but may become squamous-celled by metaplasia

The diagnosis of pulmonary tumor is difficult because the early stages are often symptomicse. It therefore requires a combination of systematic methods. The history and symptoms include evi dence of a uniformly blood stained picural effusion bymontage a localized area of infection in the chest bronchitis dysoners without evertion, cough and expectoration pain general weakness and loss of weight. The physical signs may include involvement of the recurrent laranceal nerve pressure on other structures and localized duliness to percussion Poentgenological examination is of paramount im portance. This may be combined with the injection of bounded which is easily done through the crico the road membrane or just below the cricoid into the trachea The innodol will often show the extent and position of the growth Re some surgeons artificial pneumothorax followed by roentgenography is favored. Bronchoscopy and thoracoscopy have proved of value when simpler methods have failed The final diagnosis may require an exploratory thoracotoms.

Some of the fess malignant tumors may be surgically removable. The use of radium has decidedly limited possibilities. I Danier Willems, M.D.

Gray S II and Cordonnier J Early Careinoma of the Lung 4rch Surg 19 9 XIX 1618

The authors report a case of early carcinoma of the fung arising in an alveolar duct. In the literature they were unable to find any reference to an alveolar duct as a primary site.

Endence is presented to show that multiple nod ular carcinomate of the lung may ares from both multiple origins and extly metastasts. The early in vasion of the lymphatics sends numerous small nests of cells to all parts of the lung. In a lung in which an old unflammatory leans has resulted in scarring, a large number of lymphatics are blocked and as cancer metastasc cannot proceed beyond the saw.

TOWARDA MCKNOHT M D

Harmer D and Russell B Radium Treatment of Malignant Disease of the Upper Air Passages icta radiol 1929 x 362

they grow in the region of the fibrosis

After fifteen vears experience the authors are of the opinion that radium alone or combined with surgery gives better results in malignant disease of the upper air passages than surgery alone. In the treatment used by them the implantation of radium needles for a long period is done whenever pouble.

Malgnant growths of the masal fosse or accessory samues are approached in various ways, but usually by the transpalatal route. The results in cases of sarromatous growths have been good size of thirteen patients having remained aline for from three to eight years after the treatment. In ca.es of endo thelouns the results have been less favorable only two of thirteen patients having survived more than face vers? Of thirty, four patients treated for care

noma eight have survived for from six months to six years nearly all of this group were moperable Mabgnant growths of the tonsil and the neighbor

ing tissues have been treated with hursed radium needles Improvement follows but very few of the patients have been cured

Intrinsic carcinoma of the lary ny ha been treated by implanting radium needles through a window in the thyroid cartilage. The results were very good in twefve of fourteen early cases and in two of nine ad vanced cases

Renaud Miget and Petit Maire The Indications for and Results of Pleurotomy in Purplent Tuberculous Pleurisy (Indications et résultats de la pleurotomie dans les pleurésies purulentes tuber culeuses) Bull et mem Soe med d hap de Par 1020 xlv 1264

Two patients treated for purulent pleuras by drainage of the pleura were completely cured. In one who was extremely cachectic the pleura re mained open for two years and then closed gradu ally The other who was treated by oleothora's from the beginning of the disease was in a dving condition at the time of the operation, but recovered completely within six months. In a third case a complete cure has not yet been effected. The pleura is still being drained but the general condition is good and the nationt is able to live no active life

Three other patients who were similarly treated died Two died a few weeks after the meurotomy and the third in whom the pleura closed up several months after leaving the ho pital against advice. In the first two patients of this group there were pul monary fesions of such extent that they could not have healed Pleurotomy was not responsible for

the fatal outcome

Hart D Empyema Treatment by Tidal Iringa tion and Suction Arch Surg 1929 tix 173

Hart states that tidal irrigation between an out side reservoir and the emplema cavity prevents oh struction of the tube by washing away obstructing parlicles when the flow is reversed. The fluid is not run into the chest under pressure but is drawn in by the expan ion of the chest during inspiration Irra gation with a fluid at a tension less than atmospheric pressure through a system that does not become ob structed gives more satisfactory drainage than open There is less danger of the develop thoracotomi ment of peteormehtis of the ribs when this method is used than when the rib is cut across. The rapidity of lung expansion can be regulated by suction or the application of slight positive pressure

This article reports the first thirty five cases of acute empyema in which continuous tidal irrigation and suction were employed. The patients ranged in age from four weeks to forty-eight years. Twelve of them were two years of age or younger initial trocar thoracotomy was performed in all but one case Two patients had a resection of the ribs later one for open dramage in the presence of a

bronchial fistula, and the other for the relief of psin can ed by contact of the tube with the int moral nerve In one of the two cases in which a nb was re sected for drainage the wound was closed tightly about the tube and in the other it was closed by a rubber dam and suction. In both the cavity was rapidly obliterated

The micro-organisms present varied widely but the method of treatment was well suited to all typeof infection The irrigation was equally satisfactory for thick and thin pus Even coagulated fibrin and exudate came out without obstructing the tube un fess the cavity was suddenly flooded with it. The

empyema cavity was kept cleaner than by any

other method of treatment The average time of clo ure of a sinus holding 5 cem was twenty one days. Dressings were reduced to the minimum Frequently, no dressing was done from the time of operation until the cavity had clo ed to a small sinu, (from thirteen to thirty days) Leakage about the tube was rare even when irms tion was continued for from two to three months Obstruction to the tube occurred only in occasional cases and was usually caused by a thick exudate which was tubbed off the pleura. In one case it was caused by elevation of the diaphragm with adhesious to the wall of the chest which closed over the and of the tube. After removal of the tube, the sinus closed within an average of five days

No patient had a draining sinus at the time of dis charge. In uncomplicated cases there was a rapid fall of the temperature to normal Man, patrats had a complication unrelated to the emprema which caused a febrile reaction. At times this persisted after the emprema had healed and delayed the final remotal of the tube. The only complication related to the method of treatment was ostromy chits of the ribs in two cases. No patient developed pocketing of abstesses along the drainage tract

Cases of empyema caused by the streptococcus were treated by early operation rapid recovery for lowed with no unfavorable complications due to the method of treatment. The seven patients with a bronchial fistula recovered as rapidly as those with simple emprema With the expansion of the lung the fistula closed within the first few days even a

fistula which had been present for eight months In the cases of children two years of age or sounger the mortality was o per cent The compares favor ably with the average mortality of 20 pe cent in cases treated by resection of a rib and 50 per cent in those treated by trocar thoracolomy in the preceding fifteen years The results in three cases of chronic emphema were most satisfactory and suggest that emptema cavities of long duration may be o'ld erated with or without thoracoplasty Recovery was rapid Except in one case there was no pe a stent detormity of the chest Frequently there was even no thickening of the pleura. Of the thirty five patients with acute emprema, twenty nine recov ered The six who died had an overwhelming infec tion at the time of operation Jacob M Mona M.D.

HEART AND PERICARDIUM

Allen D S, and Graham E A The Effects of Pressure on the Heart with Reference to the Advisability of Decompression of Greatly En larged Hearts an Experimental Study Arch Sure 100 121 1053

In experiments carried out on twelve dogs the subtors found that whenever the extractrals appressure was mercassed for a considerable period of time there was a decrease in the efficiency of the heart which was maintisted by a fall in the mean blood pressure in the systemic circulation and a decrease in the pulse pressure. In normal animals it was soon compensated for by changes occurring in the arterial compensation for by changes occurring in the arterial compensation for the phase of the court of the arterial compensation for the phase of the court of the arterial compensation for the phase of the court of

From these findings the authors concluded that the human heart is less efficient when it is enlarged sufficiently to be pressed upon continuously by the bony framework of the thorax and that decom pression of such an enlarged heart should increase its efficiency. In the cases of two patients with greatly enlarged and chronically decompensated hearts the authors performed an operation for the purpose of effecting decompression. In neither case was there any clinical evidence of an adhesive mediastinopericarditis After the operation both patients showed marked temporary improvement but ultimately succumbed. In one case however death was due not to the eardise condition, but to an acute pneumonia which developed three months after the operation. Even during the pneumonia there was no cedema or other sign of cardiac decompensation. In this case in which the operation resulted in more benefit than in the other case the pencardium was opened but as it was found not thickened decortication was not performed cordingly the beneficial result seems to have been due entirely to the decompression

IACOB M MORA M D

Alexander J Macleod A G and Barker P S Sensibility of the Exposed Human Heart and Pericardium 1rch Surg 1929 NY 1470

The response of the human heart and the parietal and disphragmatic pericardium to various stimuldirectly applied were determined in the case of a patient whose heart was exposed by pericardiostomy

for suppurative percarditis

The ventities were insensitive to light touch
Rubbing was interpreted as pressure. Heavy pressure and profiting with a needle were interpreted as
touch. Tenson on the left ventircular stall caused
touch. Tenson on the left ventircular stall caused
touch of from a to to spo degrees F and cold
of from as to to spo degrees F and cold
of from as to to spo degrees F and cold
of from a to to spo degrees F were not identified.
The application of tuning forks did not produce a
tensation of vibration. Tlectrical stimule caused
pan only when extraspistoles occurred. Two blunt
points of pressure simultaneously applied from z
of 3 cm paint on the right and left venticels were
udentified as two points. Two points of pressure on
the right ventrice were constantly said to be one

point, and one point of pressure on the left ventricle

The diaphragmatic pericardium did not feel light touch Heavy pressure was interpreted as a feeling of pressure and once as slight pain. Heat cold and whentoo were not identified.

The parcial percardium gave a sensition of pressure when pressure was applied to the inner surface of its posterior and left posteroliteral walls. Pressure applied forward against the anterior perchann and thoract wall caused severe local and referred pain. I am was produced by sweeping the finger around the pericardial causty and by pinching practing and scratching the inner surface of the prescardium. Heat and cold were not identified.

With the exception of pressure against the antenor pericardium ione of the stimuli applied to the heart or pericardium caused referred sensation. Pressure against the antenor pericardium caused refsence of pair to the chest or abdomen.

Only two reflexes were noted in connection with any of the stimuli applied. One was the activation of coughing on irrigation of the peticardial cavity and the other which may have been wholly or parity voluntary was the 'squirming of the body and extremities on painful stimulation of the heart or pericardium.

No conclusions were reached as to the nerve paths concerned in the production of the sensations

Churchill E D Decortication of the fleart (De lorme) for Adhesive Pericarditis 1rch Surg 1930 XIV 1457

Adhesive pericarditis interferes with the heart as tion by causing the formation of adhesions to the wall of the chest or contraction of the thickened pencardium. In the first condition-mediastinopen carditis-systolic contraction is interfered with he fixation of the chest wall and the resulting distortion probably produces a relative valvular insufficiency The removal of the cartilaginous or bony portions of the ribs overlying the heart relieves the heart of the strain This is the cardiolysis of Brauer more correctly called thoracolysis precardiaca ' In the second condition - concretio pericardii-the heart cannot expand in diastole to receive the inflowing blood and venous stasis results particularly in the inferior caval system All degrees of transition be tween the two types are lound. The difference is due more to the degree of contraction than to the type of adbesion

The first type of adhesons my progress to the point of producing decompensation with symptoms of cardiac passive congestion. The condition is characterized by retraction of the chest wall during distolled and bulging of the chest wall during distolled. A marked third indicates a powerful heart action and competent distolle filling of the chambers. In the second type there is a striking disproportion between the high degree of cardiac passive congestion and the sight objective cardiac ugas. The finding which

noma eight have survived for from six months to six years nearly all of this group were inoperable Malignant growths of the tonsil and the neighbor

Malignant growths of the tonsil and the neighbor ing tissues have been treated with hirsed radium needles. Improvement follows but very few of the patients have been cured.

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Renaud, Miget and Petit Maire The Indications for and Results of Pleurotomy In Putulent Tuberculous Pleuristy (Indications et résultats de la pleurotome dans les pleuréuse purolentes tuber culeuses) Bull et mêm Soc méd d hôp de Par 19 9 N 1964.

Two patients treated for purulent pleans, by dramape of the plears were completely cured in one who was extremely eacheque the plear are mained open for two pears and then closed gradu ally. The other who was treated by oleothorax from the beginning of the disease was in a dung condition at the time of the operation but recovered completely within six months. In a third case a complete please, we see that the complete condition is the beam, dramed but he general condition is good and the patient is able to live an active fife.

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Hart D Empyona Treatment by Tidal Irriga

Hart states that tudal irrigation between in out side teers of and the empty ema castly pre-tan out struction of the tube by was castly pre-tan out struction of the tube by was creed as a better time particle to the thest under pressure but is drawn in but ergansion of the chest during inspiration. Irrigation suth a fluid at a ten ion less than atmosphere pressure through a system that does not become of structed gives more satisfactors drainage than open interaction. There is less danger of the development of osteomichists of the ribs when this method is used than when there his cat across. The rapport of lung expansion can be regulated in suction or the application of shight postule pressure.

"The article reports the first thirth five cases of conte or prevay in which continuous thind irrigation and suction were employed. The patients ranged in most weeks to forth right vears. Tuebte of them nere two years of age or younger. An intuit intervit horacotomy was performed in all but one case. Two patients had a resection of the ribs distribution of the content of the con

bronchial fistula and the other for the relief of pain caused by contact of the tube with the Literceyid nerve. In one of the two cases in which a rb was resected for drainage the wound was closed highly about the tube and in the other it was closed by a rubber dam and suction. In both the carty was

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other method of treatment. The average time of clo use of a sinus holding 5 cm was twents one days. Dressings were reduced to the minimum Frequentis no dressing was done from the time of operation until the cavits. Made closed to a small sinus (from threen to thirti days). Leakage about the tube was rare even when mix mix as continued for from two to there motils Obstruction to the tube occurred only in occasional cases, and was usually caused by a thirt ende excess and was usually caused by a thirt ende caused by election of the displangem with addenous to the will of the chest which closed ove the end of the tube. After removal of the tube the sina closed within an average of fix days.

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abschess along the dramage tract.
Cases of emperom caused by the streptocoreus
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method of treatment. The small recover is to
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might be supported to the small recover in
might empere man. With the steph is not of the flug
the first than days even a
first what when had been present for eight month

In the cases of children too version age or voinger the mourtally was op per cent. This compares favor abit with the a erage mostfally of per cent in cases treated by receivation of an hand so per cent in those treated by trocar thoracrotoms in the pre-claim of an interest years. The results in three cases of reducing the case of the control of the case of the control of the cases of the cases of the case of th

The classification of thymus tumors is not yet definite, chiefly because of the uncertainty regard up the histogenesis of the thymus itself. In the author's first case, which clinically suggested strumists the nepflasm was found to be a reticulo-endo-theloma. In the second case, the tumor was a small celled carenom with Hassil's computely.

Henvany Returence (Z)

MISCELLANEOUS

Harrington S W The Surgical Treatment of fn

Harrington reports twelve cases of intrathoracic tumors and reviews five cases reported previously in which a transferral operation was done

In filteen of the seventeen cases the turnor was re moved completely. In one case complete removal was effected by a two stage operation and in four ten cases by a one stage operation.

In two cases only exploration was performed. The

condition was proved to be high grade malignancy by microscopic examination of tissue removed and the lesson was imperable because of the extensive in filtration into the wall of the chest and mediastinal structures.

In the entire series of seventeen cases there was one operative death. This death occurred from cerebral embolism on the seventh day after the operation. The operative mortality was therefore 5.5 per cent.

The operative mortality was therefore 5 5 per cent
The tumor was malignant in eight of the cases. In
two of these it was so extensive that only explora

tion was possible. In the remaining six cases it was removed completely. In two cases one of malignant endothelmma and one of osteogenic sarcoma, death resulted from metastass during the first year after the operation. One patient with fibrosarcoma differom metastass two years and two months after the operation. Two patients are hving. In the case of one of these a malignant endothelmons was resected with a portion of the diaphragm and thoracic wall. One and a half years after the operation there was no evidence of recurrence. The other fiving patient had an osteodhorsarcoma and is free from evidence of recurrence four years after the operation and the operation. The thelms after following operation.

The author believes that the operative results in this group of malignant cases justify a more optimistic view than generally is taken in these cases and that they emphasize the importance of early

diagnosis

In the nine beingn cases the tumor was completely removed by an operation in one stage. There was no operative mortality and all of the patients were apparently cured. As it often is suppossible to deter mine the operability or the type of the tumor definitely by the methods of diagnoss in present use and as there is reason to believe that is beingn tumor will undergo makipant change such as occurred in two cases here reported, it is believed that in all cases of intrathoracie tumor exploration should be carried out unless the clinical evidence indicates that the condition is hopelessly importable.

particularly indicates a seriou In impeded distolers the marked distolers of the cervical tens in the upurght posture these veins do not empty and in state and distole they show a characteristic double collapse. Acutes precor may occur even before externa of the legs. The most striking single characteristic is marked venous stasss with a small heart. In this type of case nothing less than deliverance of the heart from its occurrical coat can influence the course of the disease. The author re-

ports a successful operation upon a case of this type The symptoms of cardiac fadure due to mechanical factors are difficult to differentiate from those due to my ocardial weakness. If improvement does not follow rest and the administration of digitalis, the mechanical factors may be considered paramount but an underlying myocardial weakness cannot be excluded Of equal importance is the question of balance between the action of the night and left ventricles. If the left side of the heart is involved in the scar it must be liberated first, else the venous stasis is merely transferred from the caval system to the lungs with disastrous results. Fluoroscopic examination is invaluable in determining the extent of involvement of the two sides. Other signs of involve ment of the left side of the heart are effusions in the pleural cavities stasis in the pulmonary circuit and widening of the cardiac shadow to the right

A review of the literature is presented Well in 1895 recognized that treatment of adhevice pencarditis is essentially surgical Deforme in 1898 first performed decortication of the heart and recommended excision of a portion of the pencerdum. In 1902 the simpler procedure devised by Brauer was

reported. Thirth seven cases reported in the literature are reviewed. Death attributable to the operation of curred in seven cases (118 per ent). Too (62 per ent) if the patients were not beneficed by the freat ment. In four cases (12 per ent) there was a transmit and the contract of t

Torraca L Brauer g Cardiotysis in Adhesiwe Peri cardiomediastinitis (La cardiolisi alfa Brauer nella pencardiomediastinite adesiva) Arch utal ds.chir. 1929 XXV 405

E S PLATT MD

Torraca reports a case of adhesive pencardonised, administra no boy differen peats which has associated with cyanosis, dyspinosi turgor of the jugidars impobility of the aper hydrothorax enlargement of the liver ascites, and ordema. Cardiolly as his sub-periosted rescubent of the fourth fifth and swith ribs was followed by rapid improvement and teently two months after the operation the patient was in excel

lent health

A table is given which show the results obtained
A table is given which show the results obtained
in eight; four cases treated by cardiolysis which have
been reported in the literature. In sevent, two the
operation was followed by more or less marked im

provement Thurt, three of the patients are still well after a year fifteen after two years even after three years and five after four years. Thurty of the patients died four of them soon after the operation and twenty as after varying periods of time from aggravation of the symptoms recurrence or intercurrent disease.

GESOPHAGUS AND MEDIASTINUM

AUDREY G MORGAN MD

Moyer J S The Relation of the Aorta to Esopha goscopy Arch O dayings 1020 x 447

The author states that the Jackson progressive high low positions tend to protect the sorta dunar exophagoscopy and that aneurism of the aorta is not an absolute contra indication to exophagoscopy.

for dagnoss Usles a pecial reentgen technique is used a pathological condition in the lower part of the thorax of interest to the endocopist may be over looked in the ordinary anteroposterior him made primarily to determine the condition of the lung in the study of the couplings in it describes the sea an addition to the surge long and of the chest in which we for as possible the detail of structures within the carfage shadow is brought out

An elongated tortuous selectuc cortic arch with out aneuri mai dilatation may produce a ophageal

compression with symptoms

When a foreign body lodges in the exophagus at
the site of a stenows due to aortic pressure it should
be cautiously dealt with by endoscopic means

RALPH B BETTWO MD

Alexanderovskij D. Matignant Tumors of the Thymus (Geber boesarting Thymus weschward to) 2 sor rem Chir. 1929 iv 614

In reporting 2 cases of mahgnant tumor of the thymus the author reviews the clinical characteristics and histograesis of these trae neoplasms and in 3 tables summarizes \$4 cases of sarroma 34 cases of carcinoma and 36 cases of other types of thymus tumors which have been reported in the literature

The chincal picture of thymus tumors is similar to that of tumors of the mediastical space and occasionally suggests Riedel's struma. The disk mosts is usually not confirmed until a hi-tological examination is made and Hassalls corpuscles are

found

No effect on blood formation was demonstrable during a total of fourteen days. At the end of that time there were given daily to each of these three nationts and to seven others the incubated contents of a normal human stomach recovered after the ingestion of similar quantities of beef muscle. In the three patients mentioned and in five of the seven others comprising in all ten patients so treated there appeared before the tenth day an increase rn the immature red blood cells followed by progressive improvement of the aniemia entirely similar to that ordinarily observed following the daily ingestion of moderate amounts of liver by similar nationts

It is therefore concluded that in contrast to the conditions in the stomach of the nationt with permit crous aniemia there is found in the normal stomach during the digestion of beef muscle some substance capable of promptly and markedly relieving the anamia

The article by CASTLE and TOWNSEND reports a further study of the validity of the hypothesis ad vanced in the first article by Castle The results of the following experiments are considered to add greatly to the probability of this hypothesis

7 To three patients with pernicious anamia were given daily from rso to 300 c cm of incubated gas the juice secreted by fasting normal men after the injection of histamin. In two of these cases the eas the juice was incubated for two hours with an in different protein. In none of the patients was there evidence of an effect on blood formation within

fourteen days

To four patients with permicious anomia were given daily for ten days in the afternoon, 300 e cm of incubated fasting gastric juice secreted under histamin stimulation and in the morning 200 gm of beef muscle incubated in two cases with hydro chloric acid and in the three others with water. In two of these cases no effect on blood formation was observed within fourteen days. In one case a slight effect and in another, a distinct effect was observed However in all of these cases a much greater effect was seen when similar quantities of gastric juice and beel muscle were incubated together. In a fifth case complicated by cystitis no effect was noted under either set of conditions

3 To the eight patients just referred to and to two others were given from 150 to 300 c cm of fast ing human gastric juice secreted under histamin stimulation and incubated in the presence of hydrochloric acid at pl1 2 5 to 3 5 for two hours with 200 gm of beef muscle. In all but two of these ten cases the effect upon blood formation was compara ble to that occurring with the similarly treated normal gastric contents in the first series of patients Before the tenth day there was an increase of the immature red blood cells followed by a progressive improvement of the animia comparable to that ords narrly seen following the daily ingestion by similar patients of from 135 to 225 gm of prepared hver

The authors therefore conclude that hy some interaction of normal human gastric juice and heef

muscle both of which have been shown to be indi vidually ineffective a substance can be developed which is capable of promptly and markedly relieving the anomia of certain nationts with addisonian per nicious anamia

As the experiments reported in the first article of this series demonstrated that the presence of boof muscle in the stomach of the patient with pernicious anymia is incapable of developing such an effective substance it is strongly suggested that the absence of this effect is due to the defective quality of the pastrie secretion of the nationt with such anomia

It is believed that the correlation between the production of an effective substance and the nees ence of a normal proteolytically active easing mice in contrast to the demonstrable lack of both in the nations with permicious animus adds strength to the validity of the original hypothesis regarding the

particular nature of the disease

It is believed that for the first time a relationship between the stomach and the function of the bone marrow of the human being has been demonstrated and that the general belief that the interrity of the stomach is unnecessary for proper body metabolism is brought into question I Frank Dolonty M D

Starlinger E More Cases of Recurrent Ulcer Following Extensive Gastric Resection with Comments on the Choice of Secondary Opera tion Following Resection by the Billroth I Method (Weitere Geschwuersrueckfaelle im Ge folge ausgedehnter Magenrerektionen nebst Bemerk ungen zur Wahl der Nachoperation bei voraus regangener Resel tion nach Billroths erster Methode) Il sen klin Il chniche 1020 XI 005

In cases of gastric and duodenal ulcer resection seems to be the operation of choice. Nevertheless the number of known recurrences of ulcer after resection is constantly increasing. In addition to a case of recurrence following gastric resection which was previously reported from the Innshruck Clinic the author reports three others. In two of the four cases the resection was done for callous ulcer and both of the patients died as the result of opening of the duodenal stump In the third case the resection of a cicatricial stenosis was followed by perstonites which was also due to the duodenal stumo in the case reported previously in which a ter minolateral gastro enterostomy was done below the papilla for the purpose of exclusion recovery resulted

Attention is called to the danger of further resection after the Billroth I operation According to the literature and the four cases reported in this article the resection of an ulcer recurring after the Biliroth I operation is followed by poor results in 26.7 per cent of the cases However resection is of course necessary in cases of bleeding recurrent ulcer On the other hand exclusion by the von Eiselsberg method or with resection of a portion of the stomach seems less dangerous and more apt to be successful even though secondary hamorrhage or perforation

SURGERY OF THE ABDOMEN

ABDOMINAL WALL AND PERITONEUM

Buchbinder J R Hellman F R and Foster, GExperimental Peritonitis Effect of Hypertonic Destrose Solution upon Experimental Diffuse Peritonitis Surg Gones & Ubst 1929 xlix 788

The authors attempted to produce in animal a perstantis that duplicated in its etiology and clinical course as much as possible the pentonitis occurring in man Their experiments were based on the fol-

lowing postulates r Because of discrepancies that would be in

troduced by the use of cultures the animal's one intestinal tract should be the source of the pento-51612 The pentonitis should range from diffuse to

general ed I sharp distraction must be made between a large localized abscess and generalized peritonitis The peritonitis must be as nearly as possible

lethal but not sufficiently severe to full the animal in one or two days as infections of such over nhelming virulence cannot be influenced

The procedure used was as follows

A segment of bowel of varying size was reserted but lett attached to its mesenters to insure its via Both ends were left open An end to end anastomosis was then made around this open loop and the opening in the mesentery closed omentum was wrapped about the suture line of the anastomous and the bowel with the loop returned to the abdomen Complete closure was then effected An open loop of mid ileum 20 in long was employed

The following conclusions are drawn The prognosis of acute diffuse peritonitis is

governed chicily by the rapidity of absorption 2 The most important factor controlling the rate

of absorption is fibrin

3 Fibria is diminished or absent in the more viru lent cases because of dilution of the exudate The streptococcus is most commonly identi-

fied with this abundant exudate and the accom-

panying virulent course of the disease

- 5 The addition to such an inflammators exudate of a tran adate produced by the intrapetitoneal injection of hypertonic dextrose solution produces a more rapid spread of the infection and insures a lethal outcome
- 6 It seems probable that an abundance of thin exudate serves to prevent ileus by mechanically colating the intestinal loops 7 The results of this experimental study do not
- agree with the published reports of the similar treatment of penionitis in man CARL R STEINE M D

GASTRO INTESTINAL TRACT

Bumberg T L Cardiospasm In the Newborn Infant Report of Three Cases Im / Dir Child 1929 Exxvii 1183

Cardiospasm 18 defined as a spasm of the smooth muscle fibers surrounding the cardiac onfice which results in partial or complete occlusion of the lower end of the resophagus It is therefore a functional disturbance of neurotic origin causing failure of the lower end of the ersophagus to con summate the act of deglutition. The cardiac sphine ter to not well defined As the pressure within tot asophagus is low the cardiac sphincter seldom undergoes any appreciable hypertroph)

The three cases reported presented similar symptoms the chief of which was forcible comiting begin ning with the first feeding occurring during of soon after nursing and showing no gastric contents in the

comities The diagnosis can be confirmed by roentgen exam

ination The spasm to easily overcome by the passa of a catheter through the cardia for a number of feed tngs. In some cases there is an apparent association of the condition with a mild pylorospasm Hazzy W Five M D

Castle II B Observations on the Etiological Relationship of Achylia Gustrica to Pernicious An emia 1 The Effect of the Administration to Patients with Pernicious Anamia of the Contents of the Normal Human Stomach Re covered After the Ingestion of Beef Muscle

4m J If Sc 1029 clarent 743
Castle N B and Townsend N C Observations
on the Etiological Relationship of Achilla Gastrica to Pernicious Anomia II The Effect of the Administration to Patients with Per nicious Anarnia of Beef Muscle After Incuba tion with Normal Human Gastric Julce

1m J 31 Sc 19 9 clrxvan ,64

In the first of the e art rles Castle states that a consideration of the known facts concerning the achylia gastrica of addisonian terricious anamia together with the recently acquired knowledge of the effects of by er therapy led to the belief that the disease may pos ibly be dependent upon an inadequate gastric digestion of protein which permits the de velopment of a virtual deficiency in spite of a diet adequate for the normal man

The results of observations designed as a preluminary test of this hypothesis are reported and are belie ed to be consistent with it though they do

not necessarily prove it Each of three patients with permitious anamia

were given daily for a period of ten days between 200 and 300 gm of finely divided raw beef muscle but should make an immediate incision put in a drain and do nothing more. He stated that it is surpring how many patients will recover from this ten mnute operation especially if it is followed by the Orbitor's standing treatment.

CoD reported 34 cases of perforated duedemal ulcer from the surgical service of the Beckman Street Hospital, New York Two thirds were cases of gastne ulcer's and one third cases of duodenal ulcer All of the patients were males Operation was performed as soon as possible after the patient's admission to the hospital and consisted of simple closure of the perforation. There were a deaths a mortality of 6 per cent. One of the patients due from spreading peritorities and the other all the control of the patients of the control of the patients of the patients of the control of the patients of the patients of the control of the patients of the control of the patients of the patients

MANUEL E LICHTENSTEIN MD

Vaughan R T and Singer II A The Value of Radiology in the Diagnosis of Perforated Peptic

Uleer Sury, Garce & Obit 1939 alsx 593

Valent Sury, Garce & Obit 1939 alsx 593

ous of perforated peptic uleer for some time and in previous publications has reported twenty nine Cases in abach such adsponsive assumed. This discussion is hated upon the twenty nine previously reported cases and forty three others making a total of seventy two in which a roentgen examination was made primarily to determine the presence of air in

the pentoneal cavity The first case in which the precedure was em pleyed by the authors was seen in 1021 The authors believe that the chief reason why the method is not universally employed is that surgeons do not realize its value The objection that it may cause a loss of time in cases of acute abdominal conditions is not valid hecause its execution requires only a few min utes The authors advocate that the patient be taken to the 's ray room on his way to the operating toom They examine the patient in the upright position and also in the left lateral position. The left lateral position is chosen because it permits the gastne bubble to occupy the juxtapylone area in which over go per cent of ulcer periorations occur and because in this position further leakage of gas the liquid contents is prevented whereas the escape of air is permitted. It is unnecessary to make a reenthenogram as fluorescopic examination is suffi Clent

The seventy two patients a base cases are reviewed when the Nay shortly after their admission to the hospital. In nine cases in which no free intrapertioned gas was found, recovery resulted without operation. In affity four of the sixty three discretibent was evidence of pneumopertioned gas the presence of a port with free intrapertioned gas the presence of a port with free intrapertioned gas the presence of a port with free intrapertioned gas the presence of a port with free intrapertioned gas the presence of a port with free intrapertion of the propertion or at autory. In the fine either tecovery resulted without operation but subsequent clinical and X up examinations proved the presence

of a peptic ulcer in all. Of the eighteen cases in which it was impossible to demonstrate the presence of a gas bundle at the time of the patient's admission to great the diagnoss was corroborated by operation in nine. Therefore, 85 7, per cent of the cases showed evidence of free gas. In the first series of lifteen cases reported in 1924, pneumoperitoneum was found in 85 7 per cent, and in the tently nine cases reported the following year it was found in 86 2 per cent.

The authors believe that pneumoperitoneum is the most constant sign in perforated pentic ulcer The nine cases in which the symptoms were less marked and in which there was no nneumoners toneum represented a milder type of condition Even though in such cases the onset of symptoms is sudden and stormy improvement occurs with early disappearance of the symptoms These are cases in which the leakage of gastric contents is relatively slight or the openings become closed spontaneously soon after the occurrence of the perioration. To demonstrate a pneumoperatoneum in this type of case the authors place the patient on his left side for one or more hours so that the air within the stomach may use to the pylone region. If a perforation is present, gas will escape into the free peritoneal cavity. This procedure is employed only in cases in which there are negative \ ray findings and the mild and atypical symptoms are so slight that surgical exploration is not justified. The discovery of gas above the liver and between the liver and the disphragm with the patient in the upright position is diagnostic of the presence of free air in the pentoreal cavity

Absence of gas in the peritoneal cavity after the perforation of a peptic ulcer is attributed by the authors to the following factors

authors to the jointwing lactors

• Posture If the patient assumes a right lateral
position the gas which is present in the stomach
accumulates in the fundus of the stomach and can
not escape through the perforation which is usually

an the region of the pylorus

2 Absence of gas in the stomach at the time of
perforation

3 Small size or quick closure of the perforation, because of which the quantity of air that escapes is too small to be visualized

4 Trapping of the gas by adhesions

Freumoperitoneum may follow other condusions besides inputing leptic uter. The authors have observed it after blunt trauma to the abdomnal wall as well as after gunshet and stab wounds. Beades these traumatue cases they have observed it in nine cases of spontaneous rupture not due to peptic uter. In the case of the latter it was due to the perforation of a word of the latter it was due to the perforation of a contract of the contract of a contract of the contract of a contract of the cases it was possible to make a correct diagonas because of the bastory and the clinical observations.

ALTON OCHSNER, M D

of the ulcer remains possible Extrapentoneal displacement of the duodenal stump is another expedient Drainage to the duodenal stamp seems indicated in all cases Simple gastrojejunostomy is inadvisable on account of the great danger of the formation of a peptic ulcer of the jejunum in the presence of duodenal stenosis Fatal hamorrhage from the ulcer ims been known to occur after this procedure SOUNTAG (1)

Dineen P Acute Perforated Ulcers of the Stomach and Duodenum Ann Surg 1020 ac 1027

The author presents data on 142 cases in which operation was performed for acute perforated ulcer of the stomach or duodenum. One hundred and thirty eight of the patients were males. The young est was eighteen years and the oldest sixty nine

years of age

Most of the patients were operated upon within an hour after their admission to the hospital The anasthetic of choice was ethylene ether right rectu. incision was made and in most cases simple closure of the ulcer was done with drainage to the peritoneum. In 10 cases a primary gastro enterostomy was performed because the surgeon helieved that the lumen of the py lorus was obstructed In 2 cases a re perforation occurred and gastro entero.tom; was done secondarily. In the cases of primary gastro enterostomy there were no deaths After the operation the diet was restricted accord

ing to the patient a condition The mortality was 21 per cent In 91 cases in which operation was performed within six hours after the perforation there were 7 deaths a mor tality of approximately 71/2 per cent. In 32 cases operated upon between are and twenty two hours after the perforation there were 11 deaths a mor tality of 3134 per cent. In 16 cases operated upon more then twenty four hours after the perforation there were 13 deaths a mortality of 81% per cent The cause of death was general perstonitis in 24 cases, pneumonia in 5 cases and pulmonars em bolism and multiple abscesses of the liver in a case In the cases in which the perforation oc curred immediately after the ingestion of food and those in which purging had been done the amount of gastric contents in the peritoneal cavity was more apt to be large and therefore fulminating peritonitis was more apt to occur Since the use of ethylene anasthesia the incidence of postoperative pneumonia has decreased

Of the 111 patient discharged after operation 103 were followed careful study of each was made, including laboratory and \ ray examina Special attention was paid to the nervous It was found that nervous patients were more prone to have recurrent attacks of gastrac disturbance than others. When the nervousness was relieved the incidence of the attacks was de creased The patients were given instructions as to diet and told to report for observation at the clinic at frequent intervals

Eighty three patients remained well after the primary operation Of these 77 had simple closure of the perforation without gastro enterestomy 5 sample closure with primary gastro-enterostomy and a simple closure with pyloroplasty. The remaining 20 patients has a recurrence of the symptoms of peptic ulcer Of these 18 had simple closure without gastro enterostomy and 2 simple closure

with primary gastro enterostomy In the discussion of the report McCREERY stated that his experience at Bellevue Hospital New York closely paralleled that of Dineen In many of his cases the perforation had been preceded by alcoholic excess. In 10 per cent, the perforation was the first symptom of the lesion. On the First Division at Bellevue Hospital an immediate gastro enterostomy is done in 30 per cent of cases of perforated duodenal ulcer but in only to per

Cent of cases of gastric ulcer

LEWISOHY said that in his opinion patients who are obliged to restrict their diet for a lon period after perforation of an ulcer are suffering from chronic ulcer. On re examination of patients operated upon for acute perforated uker at the Mt Singt Hospital New York in the period from tois to tors it was found that a great many of them had symptoms of persistent ulcer rovers of retention pockets in the diorentm on ray examination and of tenderness on pressure proved that the ulcerative process uas still going on Lewsohn suggested that the pylone spasm attributed by Dineen to a nervous disturbance might be due to persistent ulcer

FARR reported data on ros cases of perforated gastric ulter and 50 case of perforated duodens ulcer treated on the First Sugreal or Cornel Divi ion of the \est lork Hosp tal the service of One hundred and thirty three of the Gibson patients were males. The total operative mortality was 179 per cent In tro cases operated upon within twelve hours and 5 operated upon within eighteen hours of the perforation there were 14 deaths a mortality of I I per cent In 9 cases operated upon within from eighteen to twenty four

hours after the perforation there were a deaths a mortality of 22 2 per cent In 15 cases operated upon more than ewenty four hours afte the per foration there were 9 deaths a mortality of 60 per The methods of treatment and the end results were similar to those reported by Dincen However the surgeons at the New York hospital are slightly more opposed to primary gastro-enteros tomy The reasons for their opposition are that it is exceedingly difficult to be sure that gastro-enter ostomy is necessary the operation has a definite mortality even when it is performed by expert sur geons and the resul s are no always good It is beheved at the New York Hospital that gastroenterostomy is seldom indicated in acute perfora

Morris stated that in cases of shock the surgeon should not take the time for even simple suture

one half hours) was approximately the same as that in normal does under similar conditions. In the ten does in which the usual longitudinal incision was made there were three poor results. In the normally functioning gastro enterestomies the average emply ing time was practically the same as in the other series. In the three dogs with poor function there was marked evidence of gastric stasis. In two ani mals the obstruction became progressively more marked and was associated with somiting and loss of weight Elvoroscopic examinations approxi mately six weeks after the operation showed that the stomachs were greatly dilated. They did not empty percentible after six hours and after three days marked gastric retention persisted. The stoma was much enlarged, and the opposite intestinal wall was stretched and ballooned out in line with the gastne wall

The transverse jejunal incision is of advantage because the circular muscle hibers are not severed and accordingly interference to peristalsis is main mail the distal intestical loop gravitates downward without kinking into the optimal mechanical post tion and distention of the stomach instead of producing a valviar obstruction maintains the patency

of the lumen

In thirteen of a series of clinical cases in which gastor enteroclomy was performed with a trans verie jeunal incessor, there was no six hour gaston-tendue in the immediate postoperative nonequential consideration of the production of the production of the production of the production suggesting serious impairment of the motor mechanism develop during convolved from the motor mechanism develop during convolved for in most of the cut when the motor mechanism develop diverse into an an emothia after the operation was there any six hour residue.

Of threen patients followed up for a year or more that after the operation ten were operated on more that the years ago and three between one and two years ago. The results were in general very satisfactory One patient required a second operation for the text of yearing obstruction at the anastomosattributable to pressure by the mesocolon on the distall loop. Another was incaparated by rheumations but had no further gastro intestinal symptoms than the manipulation of the distall loop. Another was incaparated by theman tism but had no further gastro intestinal symptoms to the menopause but none three distall positions of the state of t

The author concludes that in properly selected cases the results of the operation described are excellent MANLEL E. LICHTENSTEIN M.D.

Brandberg R. An Experimental and Clinical Study of the Chemical Blood Changes in Heus Acts chirurg Scand 1929 Ivv 415

The author reviews the earlier theories as to the causes of death in ileus and then discusses the find

and of recent experimental studies of this problem The latter show that in experimental strangulation of the intestine the cause of death is intorication from gangrenous bowel tissue alone or in comme tion with peritoritis. In high simple obstruction (obturation) in which serious changes in the wall of the alimentary canal are absent, the chief lethal fac tor is believed to be the loss of mineral substance and fluid due to failure of the secretions discharged into the upper portion of the alimentary canal to be re absorbed. This loss leads to chemical changes in the blood among which are a reduction of the chlorides due chiefly to the loss of gastric nuce and a rise in the non protein nitrogen due to the loce of fluid. He a series of experiments on tablits the author has been able to obtain further evidence in support of this theory

Following obstruction of the upper gastro intestinal tract the animals died very soon and at necrops, no important changes beyond distention were to be found in the alimentary canal. On the other hand the blood changes mentioned appeared and it was evident that large amounts of chiorides alka

hes and fluid bad been lost

Following obstruction of the large intestine the animals lived considerably longer and at necropsy the cause of death was found to be gangrene of the colon due to overdistention and pertinents. In these animals, there were no blood changes other than those of starvation and no considerable loss of min eral substance or fluid could be discovered.

Obstruction below the point of entrance of the pancreauc duct resulted in the greatest loss of chlorides and of fixed alkalies and fluid. This fact undoubtedly explains the old observation that simple obstruction at this point leads soonest to death

In thirty six cases of different types of human ileus Brandberg investigated the non protein ni trogen of the blood and in most of them also the chlorides in the blood

Three cases of sleus of the stomach or duodenum showed at the first examination on the third or fourth day of the disease a distinct rise in the non protein nutrogen and a reduction in the chlorides

In obstruction of the lower small intestine (thir teen cases) a rise in the non protein nitrogen could usually be established after the condition had been present for two days

In strangulated herma containing small intestine (satteen cases) a distinct rise in the non-protein in trogen usually did not appear until after the fourth day. In no cases of obstruction of the small intestine could a definite reduction of the blood chlorides be ascertained.

In obstruction of the large intestine (four cases) there were no blood changes even after a course of several days

Particularly high non protein nitrogen values are to be found in cases in which obstruction of the stomach or small bowel has been present for several days. It is unportant to know this because other wase the bigh non protein nitrogen value might

The Roentgenological Appearance Sandstrom C in Cases of Benign Diserticular Crowths of the Stomach tetrendel 1929 7 422

The author reports a case of interest from the point of view of differential diagno is in which roent gen examination of the stomach showed a narrowing of the lumen of the pylon on the the character of a delect in the center of which there was a michelle is a result of the roentgen examina dougle shot tion a tentative diagnosis of ulceration with sur rounding infiltration was made

Operation revealed a benign tumor like hiper plasta of the pyloric glands in the submucosa and mu cularis surrounding a central diverticulum-a diverticular adenoma or more correctly on account of the character of the glands an adenomatous

combined with a diverticulum

Such benign diverticular tumors (diverticular myomata or adenomata) are very rare. Only one case rountgenologically examined has been reported in the literature. In that case as in the cases re ported by the author the roentgen findings were wrongly interpreted. On account of the associated presence of a diverticulum and a tumor a direposis based on the changes found in the rountgen picture a niche like opaque pot surrounded by a defect in the contrast shadow an appearance expical of aqulcer-tion with surrounding infiltration (callous or cancerous)-becomes exceedingly difficult There fore when an ulcer or cancer is suspected on el mical grounds it is almost impossible in these cases to exclude ulceration. For a correct detailed diagnosis it is probably necessary to make repeated examina tion for a considerable time. The absence of spasm and the absen e of blood in the feces are important findings which rule out ulcer

Leriche R and Irmann E Two Cases of Lymph oblastic Streoma of the Stomach Still Cured Six Years and a Half and Three Years and Ten Months After Resection of the Stomach (Deux cas de sarcome l'imphoblastique de le tomae guéris 6 an el demi el 3 ans el 10 mois après ré ec tion gastrique) Lion chir 1929 Will 31

The first case reported was that of a man forty three years of age who began to have vague abdom mal pain in the spring of 1921. The pain soon be came localized in the left his pochondrium. In July 102 the patient came to the surgical clinic with a hard nodular tumor beneath the false ribs on the left side. Operation performed under other anarthe sia revealed a large nodular tumor of the antrum ex tending quite high up on the lesser curvature. Re section was performed with a I blva anterior precolic gastrojejunostomy

Histological examination showed the tumor to be a lymphosarcoma of the stomach Recovery from the operation wa complicated by bilateral broncho

pneumonia For six years the patient was well hut at the end of September 1018 he began to have a feeling of weight in the stomach associated with the eructation of gas after meals and he again lost appetite and weight On January 7 he was readmitted to the hospital with a diagnosis of peptic ulcer

it operation the anistomosed loop wa found greatly dilated and the segment of the duodenum small the anastomosis was not thickened a d there was no induration. When the stomach was opened the mucous membrane above the anastomosts was a little red but there was no ulcer and no recurrence. The patient was discharged in good condition

The recond case was that of a man fifty three years of age who gave a history of pain in the epigastrium and loss of appetite and weight over a period of six week. A large tumor could be palpated beyeath the umbilious Roentgen examination showed defective

filling in the pylonic and prepylonic region Operation performed under local anasthe is on May 9 19 5 disclosed a tumor of the middle part of the autrum with glands along the greater and les ser curvatures Resection of the horizontal part of the stomach was done. Hi tological examination showed the turror to be an ulcerated ismphoblastic

sarcoma The operation was followed by uneventful recov Il hen the patient was seen again in \ovember 1928 be was in excellent health but roentgen exam ination showed signs of recurrence. Four months fater three vears and ten months after the operation he was still entirely well chinically

APPREL & MORGE MD

Moise T S Gastrojejunostomy with a Trans verse Jennal Incision \ Engla .d J M d 19 9 24 11 4

In the technique de cribed by the author a point elected between adjacent straight inte tiral atteries and two small crushing clamps are applied side by side so that they extend acro's from twothirds to three fourths of the diameter of the intes time 1 margin of 14 in is left at the mesenteric liter an inci ion is made between the border clamp the handles of the clamps a e separate 1 and the direction of the original transverse incluon t thanged to run parallel with the long axis of the in testme This port on of the jejunum is approve mated to the stomach along the line of the proposed gastric inci ion so that the dietal loop will be near

the greater curvature I comparative study of a senes of ten expen mental gastro-enterostomies performed with the u ual longitudinal personal inci ion and ten per formed with a transverse jejunal incision showed certain important differences. In the two series the operative technique and the sive and site of the anastomotic openings were identical. In the ten dogs in which the anastomoses were done with the transverse jepanal uncusion the functional results were undormly good Roentgenographic studies showed that the stomach usually began to empty immediately after feeding. The empiving was never precipitous The average emptying time (five and

may also be associated with apathy, comiting unitie peristaliss and the presence of allood in the stools. The latter can be ruled out by the absence of a tumor and of free find. Of the cases reviewed by the author a per cent were admitted to the loopstal with the diagnosis of intoucation. Other crucous diagnoses were dyseatery cavernoma of the ileum. Barlows of siesase appendicties and purpora. The author erred in a case of sigmondities.

purpura Ine author erred in a case of sigmontus; of the co-hidden who were operated upon, 13 (40 per cent) ded None of the deaths occurred to the first twenty four hours Of the chalden operated upon in the first two days of the coad to first the first two days of the coad state upon on the first two days of the coad state upon on the third day compared to find the state upon on the third day were saved. All offer and the own of the fourth day ded for the days of the day of the days of the day of the d

The 13 children who ded could not have been saved by taus. In of the fattal cases (in 4 of which resection was attempted gangene of the intestine was present and in 3 the condition was three or four days old the dismansignation was associated with tering of the seroas, lee general condition was very poor a diffuse bronchopneumonia devel one, and death occurred from seven to make house star operation. Of 6 patients subjected to resection a died thewever absolute passimism regarding resection is not justifiable as the results depend you the time that the operation is performed. Of 6 patients is whom dismansimism was done and 6 patients in whom dismansimism was done and 6 patients when dismansimism was done and 6 patien

The patient thould be prepared for operation by sensit and influson Gastre large so contra successive and indicated as it is too severe. The patient should be placed on a warm pad and the anishtiesa should not be begun until the last minute. The incision must not be too short it should be median or para retal. Musang infants may be allowed to nurse sayan tion four to us hours after the operation. Examptic securies should be presented by the retail administration of closed hydrate and fewer to the administration of o or gm of pyramidon ten hours after the operation.

In none of the cases reviewed did debiscence or fatal atony occur. The author concludes that the best treatment of intestinal invagination is operation regardless of the age of the patient or the type or duration of the condition. Sixtyns (Z)

Badile P L The Effects of Closed Experimental Occlusion of the Jejunum and Duodenum After Biological Attenuation of the Contents (Solcom partamento del diguno e del duodeno nella esclusione sperimentale chiusa previa attenuazione biologica del contentio). Arch sid di chr. 1979 2006 645

Baddle reports experiments carried out on dogs In one series a tract of jejunum from 10 to 15 cm

long was resected near its point of fixation the ends of the resected loop were closed, and an end to end anastomoss was effected between the ends of the re maining intestine. In another series a tract of duo denum was solated and closed. In both series the loop of intestine was empited before it was closed washed out with physiological salt solution and treated with 2 or 3 c cm of an emulsion of bulgarian bacilli.

bacult. The chuncal and pathologico anatomical picture in the animals in which the jejunum was excluded was the same as that in patients operated upon for ileus After exclusion of the duodenium below the ampullar of the top got animals were able to the as the cavity of the top got animals were able to the cavity of the top got animals were able to the cavity of the top got animals were able to the cavity of the top got animals were able to the cavity of the top got animals were the the animal condition of the duodenium was greatly affected by autologies too by the pancreatic exerction since following the technique used by the author on dogs. Santorinas duct continues to discharge its secretion into the loop

The instillation of bulgarian hacilli into the loop after it had been washed and before it was closed was effective in destroying progenic hactera, but did not always kill the anaerobes. In the one experiment in which the anaerobes were killed only one form of sap rophytic anaerobe was found at operation. There fore the good effect in this case was due particularly to the absence of pathogenic hacteria in the loop at the time it was excluded.

In intestinal occlusion in man it has been found that the higher the occlusion the more senous the symptoms. The author a experiments seem to show that this fact is due to the process of autodigestion which is more active the more concentrated the enzy mes producing it.

Simeoni V Intestinal Exclusion as a Preliminary Step in Raducal Operations for Abdominal Dis case (La devasione del circulo intestinale come tempo perparation ad intercent più radicali in di vers processi morbosi dell'addome). Anni stali di chir 1919 vin 1013.

As the mortality of primary resection of the intestines in bigh the author believes that the chances of success of radical operations can be greatly improved by first excluding the diseased part of the bowel to allow the organism to become adapted to the new conditions and to give the patient time to gain strength for the more radical procedure. In support of his opinion he cites a case in which this was done

The patient was a soman thirty six years of age who began to have pain in the right loner quadrant of the abdomen is January 19 6 and entered the hospital in May 1937 with a diagnosts of chrome appendictus of doubtful nature with probably a Jackson membrane. At operation the discoccal loop and exerum were found entirely can eloped in a mem brane. The reembrane was remote et the intestine freed and the appendix, which was small and atrophic was removed.

cause confusion of the condition with kidnes disease This error is favored also by the fact that under cer tain circumstances ileus and uramia may exhibit

rather similar pictures

As an aid in making the diagnosis of intestinal oh struction chemical blood changes cannot be re garded as of great value since in obstruction of the large intestine they are usually absent and in obstruction of the stomach and small intestine they are inconstant and never occur early they are by no means pathognomonic of intestinal obstruction as they occur whenever larges losses of chlorides and fluid result from any cause

The chemical examination of the blood should have a greater chinical value as an aid in controlling the postoperative course in obstruction of the stam ach and small intestine for if passage is started the existing blood changes disappear whereas if the oh struction persists the changes increase

The investigations of the blood chemistry have given a firmer support to the subcutaneous admin istration of sodium chloride solution in intestinal obstruction. This is compensators theraps. Undoubtedly larger quantities of the solution should be administered than is the rule

Jenkins II P Experimental Heus I Ifigh Obstruction with the Biliary Pancreatic and Duodenal Secretions Shortcircuited Below the Obstructed Point Arch Surg 1929 Mt 1972

In experiments on dogs the author produced high intestinal obstruction and shortcircuited the biliars panereatic and duodenal secretions to a point below the obstruction These dogs survived considerably longer than others in which the secretions were left to drain proximal to the point of obstruction. In some instances the operation was followed by a loss of weight equal to one-half the original weight. It eaused also a gradual fall in the blood chlorides and a gradual rise in the carbon dioxide combining power of the plasma. The non protein and urea nitrogen of the blood usually fell at first and then rose gradu ally until just before death when it rose abruptly Few microscopic changes were found in the organs at autops) In most cases death was due to compli cations No explanation is offered for the prolonga tion of life by the shortcircuiting of the secretions

A Contribution on Invagination in Obadalek W Children (Ein Beitrag zum Invagnationsproblem im Kindesalter) Beile klin Chie 1920 calvi 663

CLARENCE V BATESIAN M D

The author reviews a material of 53 cases of in vagination which came for treatment aming 101 cases of ileus in children under fourteen years of age during the period from 1910 to 1928 The marked increase in the incidence of invagination especially in infants since 1922 is probably to be explained hy improvement in the diagnosis Twenty eight of the children whose cases are reviewed were infants and most of the infants were between seven and nine months of age Thirty two (or 5 per cent) of

the children were males. In 4 cases there was a double invagination of the ileocacal type

In the author's material as in that of others the invagination was most frequently of the ileocarcal type (69 8 per cent of the cases) All of the cases were of the central or descending type. On the hasis of his experimental studies the author beheves that both the circular and longitudinal muscle are involved in the causation of invagina The eleocæcal type of invagination usually has its origin in a spasm of the lower end of the ileum Oceasionally the condition is of the creal type The latter is characterized by freedom of the sleum and the tip of the appendix from involve ment and the relatively long duration of the condition. In spite of severe colies, there is no true advance in the invagination evidently because the end of the small intestine acts as a plug

Of 50 cases in which operation was performed the cause was found to be a congenital or inflamma tors change in is (30 per cent)-a polyp in 4 a Meckel diverticulum in 3 chronic appendicitis in 2 empyema in 2 gangrenous appendicitis in 1 and chronic appendicatis with marked lymphoms for

mation in a Invagination of the ileum occurred in 70 per cent In I case of jejunal invagination a perforated ulcer was so tightly closed by the invagination that pentonitis was prevented. As traction on the appendir at laparotomy caused contractions in the lower part of the sleum in the direction of Bauhin's valve it is very probable that chronic irritation in the region of the appendix may act as the exciting cause of invagination

An important rôle in the causation of invagina tion is played by dietetic errors especially in nurs lings which are very sensitive to changes Such errors account for the frequency of invagination in July Every condition favoring disturbances of nutrition may cause invagination and probably spasmophiha Trauma is of secondary importance

Invagination is manifested in nearly every case hy pain Comiting is seldom absent (6 in 53 cases) In 4 extreme cases of perforation pentomits the comiting was of the facal type Blood was found in the stools in 62 per cent of the cases and in the enema water in 83 per cent. A mass was visible In fewer than 53 per cent of the cases but was dis covered on palpation under anæsthesia in all Visible peristalsis was noted in 22 cases and was always apparent when the abdomen was still soft In the presence of meteonim it and yielding The author was more difficult to demonstrate ascribes great importance to the demonstration of free fluid in the abdominal cavity which was possible in all of the cases reviewed as well as in other forms of mechanical ileus. He disapproves of roentgen diagnosis with the use of a contrast medium because of the associated loss of time and the possi ble injury that it may cause in infants

In the diagnosis it is most important to differen trate intestinal invagination from intoxication which ticula of the colon to between fifty five and fifty eight years. One of the outstanding contributing factors seems to be admostly Constinution may be the result rather than the cause

Duerticula of the colon are generally multiple They consist of hermal protrusions of the mucosa of the boxel through the muscularis into the fat of the mesenters or into the appendices epiploicae The relation of the blood vessels running into the bowel has been emphasized as a source of weakness in the bowel wall The fat tags along the lateral The most mesenteric horder are most affected frequent changes developing in these diverticula are the result of infection with subsequent inflam mation Facaliths of the shape and size of marbles may develop in the diverticula When infection develops in a diverticulum of the colon a chronic inflammatory process usually results with indura of adhesions between the diverticulum and the surrounding structures and in some instances the formation of an abscess. When an obscess forms it usually runtures into the structure to which it is attached. This may be another loop of bowel the rectum the abdominal wall or the bladder the diverticulum is surrounded by omentum or is adherent to the pelvic peritoneum a perirectal abscess or a retroperatoneal abscess develops. If the infection in the diverticulum is acute and there has been no inflammatory process the diverticulum occasionally ruptures into the free peritoneum with resulting generalized peritonitis If as in most instances the infectious process is chronic and re peated attacks of inflammation occur with or without abscess formation a chronic inflammatory th exemng occurs in the colon usually the sigmoid which is hard and more or less fixed. The bowel in this region becomes narrowed by scar tissue and a stenosis occurs which may lead to obstruc tion of the howel. The relation of carcinoma to the development of diverticulitis is not clear but it is known that carcinoma and diverticulties are rather frequently a ocisted

The symptoms of diverticultis depend on the inflammatory and infectious processes taking place in the diverticula and vary from chronic spastic colitis with constipation to perforative pericolitis with pelvic abscess retroperitoneal abscess blad der fistula acute perforative peritonitis or chronic stenosis of the colon with an inflammatory tumor The most frequent manifestations are recurrent attacks of pain in the lower abdomen and gas dis tention associated with constipation. The stools may contain blood (18 per cent of cases Judd) and occasionally show pus. An excess of mucus in the stools is common If the inflamed diverticu lum is near the bladder it causes frequency of urination and burning urination. If the inflammatory process attaches itself to the bladder pu is present in the urine If the diverticulum ruptures into the bladder gas and faces pass from the bladder on urmation

The diagnosis of diverticulosis is made not only on the basis of the history and physical examina tion but also by \ ray examination of the colon If the boxel wall is sclerosed by scar rissue or a great amount of inflammatory reaction is present shout the howel the diverticula may not fill and only a filling defect of the boxel will be seen in the reenternogram. In most instances a characteristic filling of the diverticula is seen. Associated with the filling is a marked spasm of the colon which greatly exaggerates the haustra and gives the bowel the appearance of a partially closed accordion. If a

side the bowel or may be found in the bladder urine In complicated cases in which carcinoma of the sugmond is suggested the differential diagnosis is by no means easy. In discreticulities the symptoms are intermittent and the passage of bloods mucus and ous in the stools is much less prominent than in carcinoma. In nationts developing a sigmoidovesical fictula there are a number of nousibilities as to the cause but the condition most commonly responsible for such a fistula is diverticulitis. Carcinoma of the unner rectum and at the rectousmoidal suncture very commonly attaches itself to the base of the bladder and late in the progress of the disease may form a sigmoidoresical fistula by runturing into the bladder. The differentiation between carcinoma and diverticulities under these circumstances may he most difficult of not impossible. Carcinoma of the bladder rately perforates into the intestine berculous peritonitis with abscess formation fre quently results in fistula formation after the abscess has runtured through the abdominal wall or into abdominal viscera Carcinoma of the overy espe cially papiflary carcinomatous cysts may involve both the bladder and the bowel resulting in a fistulous communication between the two Chronic infection of the tubes with induration and long standing abscess not infrequently causes a sigmoido vesical fistula Tuberculosis of the tubes may also be responsible for such a condition. Rarely, actinomy costs of the large bowel and echinococcus dis ease of the mesentery or pelvic organs may cause a fistulous communication between the bladder and bowel

The treatment of diverticulities depends on the secondary inflammatory changes taking place the symptoms are merely those of spastic colities with attacks of pain and gas formation, the patient should be given a diet rich in cellulose vegetables and cooked fruit to promote easy elimination with out the use of cathartics or enemata. The rather continuous use of paraffin oil by mouth is helpful Calcium salts which predispose to facalith forma tion should be avoided as should bran seedy fruit and vegetables Small doses of belladonna may be helpful in controlling spasms of the bowel. If an inflammatory mass develops rest may result in us disappearance but a temporary colostomy above the mass may be required Later resection of the involved bowel may be necessary but after the

I month after the operation the patient was dis charged in perfect health but a year later she came back saying that after a month of good health she had begun to have pain again and a continuous re mittent fever an abscess had been opened in the right lower quadrant of the abdomen and there was still a fistula discharging pus. On the basis of the chinical and roentgen findings a diagnosis of tuber culoma of the excum with a freal fistula was made Heosigmoidostomy was performed on May z 1028 The wound healed by first intention After this operation the pain persisted although roentgen examination showed that the anastomosis was functioning perfectly

At a third operation performed on \oversher 30 the anastomosis was found free from adhesions and functioning well The tumor with the excum and ascending colon and the part of the small intestine between the anastomosis and the tumor were re moved together with the right adness which were adherent to the mass. The stumps of the intestine were then closed and the abdominal wound was su tured around a Mikulicz drain

After this operation the fistula gradually healed the abdominal pain stopped the stools became nor mal and the patient rapidly regained her health

Histological examination of the specimen con firmed the diagnosis of tuberculoma of the excum As the appendix was free from specific changes at the time of the first operation the tuberculosi was latent in the wall of the excum when that operation was performed or developed subsequently AUDREY G. MORGAN M.D.

Gargiulo M. The Roentgen Picture of the Right Colon in Rapid Emptying of the Stomach (il quadro radiologico del colon destre nello svuota mento rapido dello stomaco) Rassegna interna de elin e lerap 1929 x 842

Twenty cases of rapid emptying of the stomach due to ulcer hyperacidity and other causes are re ported with roentgenograms. They show that rapid emptying of the stomach produces slight lesions in the right colon which can be demon trated roent genologically and look in the roentgenogram like ul cerous colitis. In the author's opinion these lesions are due to the lack of the saponifying and reducing function of the bile. The ileum does not tolerate the acid of the unneutralized chyme well and as it is capable of rapid peristaltic movements it forces the chyme quickly into the colon where it causes the changes seen in the roentgenogram. The picture is very much like that of alimentary dyspensia in chil dren The lessons are not serious enough to cause symptoms of any importance

AUDREY G MOPGES M D

Friedenwald J Feldman M and Rosenthal L J Mucous Cotttls Ann Int Med 19 9 m

521 Three views as to the nature of mucous colitis have been advanced (1) that it is purely neurogenic

and the mucus is entirely a nervous hyperscre ion (2) that it is catarrhal the result of irdiammation and (3) that it is partly neurogenic and partly inflammatory The impression is gaining ground that in most instances inflammators changes are present There is no question that the condition manifed stself mainly in persons with instability of the nervous system There is all o evidence indicating that nervous instability plays an important rôle in its causation and that there is a correlation be tween the physical type and the secretory and motor disturbance

Contributory factors associated with the develop ment of mucous colitis are chronic constipation visceroptosis cholecystiti appendicatis chronic disease of the female generative organs endocrine disturbances food allergy abdominal adhe ions

gastric and intestinal dispepsia and focal infection The usual symptoms are chronic constipation colicks pain and the passage of mucus in the form In the diagnosis sigmordoscopic of membranes and roentgen ray examinations are important The roentgen string sign to especially valuable although it is not constantly present

In the treatment for of infection must be eradi cated attention must be given to the nervous sys tem and the diet must be carefully regulated to correct constipution undernutrition and any dige tive di turbance that may be present Colonic im gations are of doubtful benefit Atropin and hella donna are of value to overcome spasm. Surgical procedures are unnecessary and should not be un J FRANK DOLGHTY M D dertaken

Rankin F W and Bargen J & Carcinoma of the Colon Intraperitoneal Vaccination by Mixed Vaccine of Colon Bacilli and Streptococci

frek Surg 1929 xix 90b In the treatment of mabgnant growths of the colon the authors have found intrapentoneal vacci nation with colon batilli and streptococct a valuable adjunct to other pre-operative measures. In a series of sixty cases in which such vaccination was done the mortality from peritonitis was definitely lower and the postoperative convalescence noticeably moother than in a similar series of cases used as controls

Important factors in the surgery of colonic malig nancy are cooperative management careful selection of patients for operation and of the type of operation for a particular case and proper selection of the method of inducing an esthesia

David V C Sigmoldovesteal Fistular Ann Surg Ig2g at IOI3

The cause of sigmoidovesical fistula in any given case to difficult to determine The most frequent origin is an abscess developing from a diverticular of the sigmoid which ruptures into the bladder Diserticula of the colon occur frequently at hout symptoms and as far as 1 known withou being inflamed The average age of patients with diver

employed with a maximum dose for each of from so coo to 60 coo me hrs of radium the radium being used at a distance of it cm from the skin and with the application of high voltage mentuen rays. The time required for external applications is usually from two to six weeks depending upon the size of the dose. Slight variation in dosage of the two agents is required in different eases. The skin tolerance determines the maximum amount of external irradiation at each nortal. The slin must not be permanently damaged, but slight blistering is of no consequence. Unfortunately because of the low degree of radiosensitivity of malienant tissue and the depth of the tumor mass from the skin surface and because of the suscentibility of the skin to irradiation a sufficient dosage of external tradiation cannot always be given to cause the complete disappearance of the cancer Under these circumstances additional treatment is reconred

A number of methods of applying radium have been attempted in the effort to supply adequate irridation at the site of tumors in which external irridation is insufficient for endectation. Here stitus irradiation by sunsificient for endectation. Here is titus irradiation by gold seeds may be employed alone but may be used also after preliminary external irradiation since the latter includes a large size of lymphostics within the field of treatment After external applications the ulcerating area is excreased in sex the tumor is smaller and the external immits are more easily defined. These afters and provide a more assumate calculation of the dose and provide a more sample increasities allowed to An internal of from one to two weeks is allowed to dappe between external and internatival and obtained to the contractions of the dose and provide a reternal and internatival and obtained to the dose and provide are external and internatival and obtained to the dose and provide are external and internatival and obtained to the dose and provide are external and internatival and obtained to the dose and provide are external and internatival and obtained to the dose and provide are external and internatival and obtained to the dose and provide are external and internatival and obtained to the dose and provide are external and internatival and obtained to the dose and provide and the dose and the dos

Gold seeds are from 5 to 6 mm in length and 755100 mm in diameter. They have a filter of 3/100 mm of gold and vary in strength from 1 to 3 me Seeds of 1 to 23/2 me are the most serviceable for

routine application

The seeds are distributed throughout the mass and the in nits. The dose required depends upon the size and radiosensitivity of the tumor and should be of sufficient strength to enablaste the Jesson in one application in lavorable cases. Secondary one law of the seeds of the see

Intensive treatment by irradiation and radical surgery consists of four steps which are usually carried out in the following order (1) external in radiation (2) preliminary colostomy if indicated (3) interstital irradiation with the use of gold seeds in which large doses of emanation may be employed

and (4) resection of the rectum

Resection of the rectum should be done from ten to fourten days after the implantation of gold seeds. The painful reaction ordinarily occurring in the diseased tissue after the use of large amounts of radium is prevented by early resection. Special countries are must be exercised in placing the seeds in order that sterilization may be obtained in the infiltrated

areas The difficulties of surgical removal of the rection are not uncreased by the implantation of the secfs unless an interval longer than fourteen days is allowed to elapse between the procedures. The type of radical operation is governed by the chinical and pathofogical factors in the case. The diversity of opinion as to the most suitable surgical method of approach will be greatly reduced when the degree of malignancy of rectal cancer is given equal to sufficient sufferation will repeat condition thesis in oticed and

ine patients general conution. In the treatment of every case of rectal cancer the question as to the adversibility of performing a colostomy arises. As an artificial anius is always a colostomy arises. As an artificial anius is always a colostomy arise and artificial anius is always an additional advantage to treatment. If the discuss can be eradicated by external irradiation there is no advantage in colostomy unless the bowel is completely obstructed. Colostomy is of advantage in about 50 per cent of cases which require the implicantation of gold seeds. In cases requiring radical resection colosiomy is often at life saving procedure. Moreover exploration of the abdomen in the determination of the Dormonias.

The frequency with which rectal cancer is allowed to progress to an unfavorable stage before it is recognized increases the importance of palliative measures: Palliative treatment by entraining the growth of the ennert tends to lessen the symptoms, improve the general condition and prolong life Palliation is best obtained by irradiation but co lostomy is at times of advantage. Each case must be treated accordant to its particular recurrements.

The author reviews 153 cases treated between June 1925 and June 1928 Of these 32 were con sidered favorable and 121 unfavorable treatment of the favorable group, irradiation was supplemented with radical surgery in 10 instances Twenty three (72 per cent) of the patients in the favorable group are thise and chinically free from recognizable cancer 4 are alive and in good general condition and 5 are dead. One patient died of intercurrent disease, 3 died following operation and I died of acute yellow atrophy of the liver several months after treatment. Autopsy in the case with yellow atrophy of the liver failed to show any evidence of cancer In the unfavorable group irradiation resulted in a lessening or disappearance of the symptoms and in many instances marked prolongation of life Of the 30 patients who received intensive p. Mative therapy 11 are dead, 12 are in fairly good general condition 4 are practically free from symptoms and 3 are free from recognizable cancer The effect of irradiation in the cases of 14 patients receiving only moderate intensive treat ment was manifested chiefly by a decrease in seventy of the symptoms and marked temporary improvement in the general health. Ten of these patients are still alive and in fairly good condition

MAYUEL E LICHTENSTEIN M D

facal stream has been sidetracked by colostomy these inflammatory tumors often subside. If stenosis of the bowel results a preliminary colostomy fol lowed by resection of the diseased segment of the bowel may be necessary Resection may be done by the Mikulicz graded method or by any other ac cepted method. In acute cases in which an abscess has formed the abscess must be drained. In acute perforative perstantis immediate operation with an attempt to close the source of the infection must be carried out. In cases of fistula between the blad der and the large bowel due to diverticulities the treatment must depend upon the sevents of the symptoms. If the process is acute with marked cystitis, and is evidenced by ascending infection a colostomy should be done and the bladder dramed by an inducting catheter until the acuity of the condition subsides. In cases in which there is an inflammatory mass between the bladder and the bowel and the symptoms are not acute expectancy may be tried with the hope that under the influence of rest the mass will subside. When the fistula is a chronic process and no acute symptoms are present a laparotomy should be done the communication between the bladder and the bowel separated and each viscus closed by suture Temporary colostoms is also usually indicated. In the cases of old persons who have had a small sigmoidovesical fistula for years and whose urinary tract has gained tolerance

to facal contamination operation may be deferred Case reports illustrating the various forms of

treatment are presented MANUEL E LICRIENSTEIN M D

Binkley C E Radiation in the Treatment of Reetal Cancer Ann Surg 1929 xc 1000

Rectal career while a relatively common disease is seldom diagnosed early the difficulty of successful treatment being therefore increased effectual methods of treatment for early cases are irradiation and the combined use of radium and surgery At the Memorial Hospital New York irradiation 1 the principal factor in the treatment Surgery is employed in cases in which it offers an additional advantage

The following factors should be carefully con sidered before treatment is outlined (1) the ability of the patient to withstand appropriate treatment (2) the location and accessibility of the cancer (3) the size of the p imary tumor and the degree of its infiltration and dissemination (4) the grade of malignancy of the cancer and (5) the degree of

radiosensitivity of the cancer

Experience has proved that because of the wide variations in these factors the treatment of a given case may vary from the most radical form of rectal surgery to an application of evernal arradia tion of sufficient meensity to bring about the de sired result. It therefore appears advisable to grade rectal cancers according to their rapidity of growth rate of infiltration and tendency toward di semina tion The following five more or less definite group

are suggested (1) slowly growing late infiltrating and very fate disseminating tumors (this type has a marked tendency to cause early stenosia) (2) uniformly growing infiltrating and disseminating tumors (3) rapidly growing early infiltrating and fate disseminating tumors, (4) slowly growing early infiltrating and moderately early disseminating to mors and (5) slowly growing late infiltrating and

early disseminating tumors Operability is determined largely by the general condition the location of the tumor the degree of

fixation of the primary mass and whether metas

tatic lesions have been formed Previous to the institution of irradiation therapy radical surgery was the only method of treatment by which it was possible to hope for eradication of rectal cancer A review of the literature indicates that about 60 per cent of the cases are considered operable that in those operated upon the immediate mortality is about 16 per cent and that only from 25 to 10 per cent of patients surviving the operation are alive at the end of three years. Assuming that these figures represent the true status of surgi al treatment only from 12 to 15 per cent of patients with cancer of the rectum remain alive at the end of three years after 60 per cent have been subjected to a radical operative procedure

The small percentage of satisfactory results fol lowing radical surgers in the so-termed ope able group and the lack of palliation provided by sur gers in the inoperable group encouraged the investi gation of other methods of treatment Although irradiation therapy has its limitations it is capable of producing satisfactory results in selected cases and often is especially effective when combined with the most suitable forms of surgery. In many

unfavorable cases it gives considerable palliation The chief factor upon which the efficiency of external tradiation depends is the radiosens hirty of the cancer cells All rental cancers are deep The distance from the skin surface to the tumor varies according to location of the turror and size of the pelvis Cancers situated near the surface obvi ously receive a higher percentage of the skin dose than those situated at a greater distance External arradiation not only affects the primary focus but includes within its field of activity the surrounding The use of a sufficient number of h mphatics portals of entry above the pelvis allows a more or less uniform induence to be exerted upon the primary Consequently mass and the surrounding area external graduation when adequate is not only the ideal method of irradiation therapy but also the ideal method of treatment for rectal cancer

The ruost efficient form of external irradiation is the use of the radium pack. When sufficient radium is not available for this form of applicator high voltage roentgen rays may be substituted How ever the best results appear to follow the combined application of radium and high voltage roentgen rays with radium predominating From three to seven portals of entry about the pelvis are usually If operated oo at all the gall bladder should be re moved as its involvement is undoubtedly only a part of a disease condition throughout the biliary tract

The functional activities of the liver are carried on hy two distinct enthelial systems. One of these is made up of the henatic cells which are particularly active in the function of storing glacogen and undoubtedly have much to do also with the for mation of urea the metabolism of bile salts and other functions. To all probability inflammation or obstruction in the bile ducts interferes a good deal with the actions of these cells. Even if disturbed for a long time, they may recover and even regeografe in cases in which there is actual de struction of some of the tissues. Surgical procedure is indicated to remove inflammatory and necrotic tissue and to release all pressure in the bile ducts The other type of henatic cell is the endothelial rell which is called the stellate or Kupfler rell which is called the stellate or Auplier cell This is a part of the general retroulo endothe hal system Undoubtedly inflammation and ob struction of the biliary passages also interfere greath with the activity of this cell Relief of these conditions is indicated in biliary surgery to allow these cells to regain their function

Halpert B The Gall Bladder Its Functions and Some of Their Disturbances in the Light of Recent Investigations 1rch Surg 1929 xxx

The theory that the gall bladder is a reservoir the function of which is to supply concentrated bile whenever the process of the intesting does not explain such inseed in the intesting does not explain such inseed in the intesting does not concretion and opportunity that the concentration of the process o

In 1924 the author suggested that bile which once entered the gall bladder did not ordinarily leave it agaio hy way of the cystic duct but is resorbed by the gall hladder mucosa and passed into the general circulation. He maintained that by such resorption of hile the pressure within the biliary system is reg ulated when the sphincter of the common duct is closed life suggests that the structure of the gall bladder the curves of its neck the narrow cystic duct and the complicated folds of Heister are ar rangements that compensate for pressure changes in the hepatic ducts. He concludes that pressure probably that exerted on the liver during in spiration forces bile into the gall bladder when the ampulla of Vater is closed. The chief function of the muscular coat of the gall bladder be believes is to prevent overdistention and adjust the size of the organ to its contents rather than to empty the

viscus. This theory is supported by the fact that in certain animals a complier contraction of the gall bladder is impossible because of the structure or topography of the organ. It is supported also by the data thus far obtained in studies of the spon taneous contractions of the isolated gall bladder of the dog. In experiments carried out by the author and Lewis the solated yall bladder of the dog in experiments carried out by the author carring at the related from one to three per minute. When the property of the contractions of the carried of the dog in the carried of the dog in the carried of the contractions of the carried of the carried

to its former shape. Under stress the muscular cost of the gall bladder hypertrophies. The cystic duct dilates the curves of the neck become evaggerated a relative insulfinency of the hestetenan folds becomes evident and numerous outpouchings called the 'Rokatansky Aschoff smuses appear. The outpouchings celler test the muscular cost and are due undoubtedly to

neated overdistentions of the viscus

Methylene blue injected intravenously into rabbits appeared in the common duct in a few minute its concentration their remained constant for an hour or two. By the end of as whourst it had dropped from a fifth to a fifteenth of its highest concentration. The blue removed from the gall bladder six hours after the intravenous administration of the dge contained from tho to twent; two times as much dge as the bile in the common duct. Apparenth, this bile entered the gall bladder by ago of the existe duct or was excreted into it from the blood stream in animals in which the cystic duct was teed scarcely any trace of methylene blue could be found in the call bladder blue and the found in the call bladder blue and the found the same and the found in the call bladder blue blue could be found in the call bladder blue.

When animals were fed methylene blue through a stomach tube little if any of the die was found in the common duct after from twelve to thirty six hours whereas the gall bladder blue invariably contained the die In fact the die was usually recoverable from the gall bladder blue even after sevent two bours. In the author's opinion the tenactic with which the die is retained in the gall

sevents two bours. In the author's opinion the tenacity with which the dig is retained in the gail bladder long after the liver has ceased to produce blue containing the dig is one of the strongest indications that the blie does not leave the gail bladder through the cystic duct under ordinary cooditions. If resorption is the principal function of the gail

bladder stagnaston in Nine phil Indication of the gail bladder stagnaston in Nine phil Indication and the district of a honorad composition of the failer and the stagnaston of recorption by the gall bladder stagnaston of the former type is a hepstogenous stass and probably similar to cholesteross produced by a hyperholesterosmar Cystogenous stass is caused by infections and new growths which imposit the function of the wall of the gall bladder imposit the function of the wall of the gall bladder.

The author concludes that gall stones are of three types (a) pure stones of hepatogenous origin con taming pure cholesterol biliary pigments or cal cum carbonate (2) mixed stones probably due to the retention of stone constituents in the bile as the

Gordon Watson C Radium Treatment of Carel noma of the Rectum Ada radial 1929 x 315

The author considers the relation of radium treament to operation for rectal carenous. He can cludes that radium should be used chiefe for moperable and borderine cases and in these only in corjunction with surject. He gives an account of the medications for radium treatment the technique dosser, and methods of attack. Neumanns method of irradiation with needles after exposure of the with diagrams showing that the photocological desired in the contraction of the co

bomb at a distance.
In a fee a ce is the author has used irradiation as a preliminant to excision, but the method is still under that I lie has semployed at also for the treatment of recurrences after operation. In a period of four and a hirly start he has used it in a total of sixth five a hirly start he has used it in a total of sixth five and the start of the star

Hochenegg J Observations on the Vaintenance of Gontinence in Patients Operated upon for Carcinoma of the Rectum (Beobachungen zur Erhältung der Kontinens bei weren Masidarm krebs Operierten) Orroskif is 1029 mx 457

The author does not consider the sacro abdominal method the procedure of choice in carcinoma of the rectum as in his cases the origin it sacral method has given ven satisfactor, results with a consider abil lower mortality.

Of the author's 1 700 cases of rectal cancer 1 000 were operated upon by the sacral route. The mortality was 12 per cent and 35 per cent of the patients remained free from recurrence after three years.

In recent years inoperable cases have become more numerous. On the average the patients were sick for fourteen months before they came to the chuit

The site of the recurrence is usually the perincular connective tissue. Therefore extensive resection far from the neoplasm not only above and below but also laterally is necessary. Hocheneg, at tempts to pre erve the sphancher expandless of the possible proposition of the state of the possible regiment of the state of the possible segment of bounded to with the modular possible segment of bond either by direct suture or Pro-drawing at through F. thuilt may close spon taneously or may be closed by the flap plastic method of Rotter.

The primary drawing through procedure is seldom po sible, but in 58 per cent of cases in which it is done the patient remains confusent. Incontinence of a sacral opening in the rectum may be made a tolerable condition by the u e of a rad bandage Rubber stoppers should not be introduced into the lumen of the intestine a rubber sponge pressed against the sacral region by a metal spring is better. The patient with incondinces should press upon the abdomen during delization

to securic more complete exacuation of the bord As regards secondary operations to obtain cosh neare the author states that prolapse of the inter which can be brought about by pess reconsiderably lacultates the solution of the problem. The bond segment is freed by a circular incison the displacation is straightened out and the international control of the process of the process

Gobbl L Primary Sarcomata of the Rectum (Su sarconu primitivi del retto) Clin chir 1929 (1485

Most of the malignant tumors of the rectum at epitheliomata. Surcoma of the rectum 1 very far. The author believes that his ca e is the thirt ib id.

to be reported.

Gobhi s patient was a man sixty one years of age
who was admitted to the hoppital suit he ages role
fishmorhood. His vilness had begin only about four
mouths previously with tenesmis and a feel a weight in the hour part of the rectum. The stump
tions were soon followed by part of the stump
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I ressure caused this plan to become more atterned on extamination pair was elected at the lover edge of the liver and about tour fanger breadths be low the coated arch. The upper surface of the liver was hard and nodular. Digital examination of the return revealed a round tumor the size of an orange with a nodular surface which in places has alterated and a short periodic implanted on the posterior vall of the return. A diagnosis of pedicide size on a first factor of the continuous control of the protection of the posterior was discounted to the posterior of the continuous control of the protection of the protection with mediatases in the liver was made and the tumor removed by sectioning the pedicle. Death resulted a few days plater.

Microscopic examination showed the tumor to be a round celled sarcoma. Such sarcomata generally outplante from the connective t's we of the rectum but as the tumor in this case contained smooth aux the fibers. Golbit believes it originated from the inter fasticular connective tissue of the muscle layer.

SUPRES G MORESS MP

LIVER GALL BLADDER PANCREAS AND SPLEEN

Juda E S The Physiology of the Liner and Its Relation to Surgery of the Billary Tract 1st Sur 1020 20 1035

There is very little occasion for the opera ion of cholecustostomic except as a temporary procedu e Skoot T. The Value of the Wohldemuth Dustase Reaction in the Urine as an Aid in the Differ ential Diagnosis of Acute Abdominal Condt tions Fancially Acute Conditions of the Pan creas (I cher den Wert der U ohlgemuthschen Dias tascreaktion im Harn als Differentialdiarmostisches Hilfsmittel bei akuten Bauchzustgenden mit be sonderer Berucksichtigung der aluten Pankreas affektionen) Acta chieure Scand 1020 ky Supp

The author reviews aso cases of acute abdominal conditions in which a ooo determinations of the diastase in the urine were made at the Lund surrical clinic during the period from 1025 to 1027. The results and conclusions are summarized briefly as fol tone

I From the point of view of differential diagno. sis, only values above art in Wohlgemuth a series are of any practical importance in scute abdominal con

2. An increase of the diastage in the utine hexand 250 to an obscure acute abdominal condition points first to some affection of the bile ducts or the pan

3 Absence of pathological diastasuria in an acute shdominal condition excludes acute processes in the pancreas provided the examination of the urine is undertaken within one or one and a balf days ufter the onset of symptoms

4 In an acute affection of the bile ducts with no pancreatic symptoms a pathological diastasuria may be of some importance for the diagoosis of the pres ence of absence of stones in the common duct as the tases of common duct stone reviewed showed an in crease in the diastase in the urine 5 times as often as the cases without stones in the common duct

5 From the point of view of prognosis the degree of diastasuria in pancreatic conditions is of no im

6 In acute bile duct affections a pathological diastasuria is of some importance in the determina tion of the operative indications as it points to ana tomical relations between the bile ducts and pan creas which predispose to the development of a seri ous pancreatic affection on the basis of the bihary tract condition

Archibald E Acute Œdema of the Panereas Ann Sure 19 9 xc 803

In experiments on a cat a tiny cannula was intro duced into the pancreatic duct through the opened duodenum and a small amount of clean gall bladder hile aspirated from the cat's gall bladder allowed to run into the pancreatic duct. The head and body of the pancreas rapidly became congested and cedema tous Sections removed showed the marked ordema grossly and microscopically. When the abdomen was re opened a few days later the pancreas was found to be practically normal showing only mild ordema both grossly and microscopically

In another cat the cystic duct was cut between ligatures and bile was collected by means of a can aula inserted into the common duct through the

duodenum. A cannula was then inserted into the panereatic duct and liver hile allowed to run into the duet without pressure. A glassy redema of the body and head of the pancreas immediately resulted Sections of the pancreas showed a condition much the same as that found in the first cat When the abdomen was re opened six days later the pancreas mae oractically normal grossly and microscopically

Archebald believes that an analogous condition occurs in man, that it is due to the entrance of bile into the pancreatic duct under abnormal conditions and that the ordema may subside rapidly. He as sumes also that this condition is responsible for many of the attacks of more or less severe engastric nam which remain unexplained. Such attacks have been ascribed to directive disturbances gastritis neuroses neuralgia of the stomach intestinal dis pensia and disease of the biliary tract usually call stones. As it subsides within from twenty four to forty eight hours it remains undiscovered. The nations may have many such attacks, and comes to neat tolerantly of his indicestion

In support of his theory the author cites a case in which the urine showed libase during one of the at tacks. At operation the pancreas was found firmer and larger than normal practically the entire organ heing enlarged Nothing else abnormal was dis covered in the abdomen As this was before the days of prolonged biliary drainage for pancreatitis noth ine was done. The patient had several attacks fol lowing the operation Archibald made a diagnosis of papereatitis before the operation and maintains that the later attacks were due to a mild form of that condition

Abnormally severe entrustric pain radiating to the left persistent enigastric tenderness on finger pres sure which is limited to the anatomical position of the pancreas a Head zone of hyperesthesia in the left flank at the level of the eighth to the tenth dor sal seements a traosient hypergly camus and a posstive test for diastase or lipuse in the blood or urine point to the pancreas If all of these signs disappear within a few days their disappearance correspond ing to resorption of the pancreatic exudate, is a fur ther link in the diagnostic chain

In conclusion Archibald urges that under the cir cumstances described operation be performed. When the pancreas is found swollen the operation should consist of cholecy stostomy with bile drainage main tamed for a period of from one to two months according to the degree of the pancreatic swelling, to give sufficient time for thorough resolution of the pancreatic exudate CARL R STEINER MD

Chronic Pancreatitis with Icterus (A Brocq P propos des pancréatites avec ictère) Bull et mém Soc nat de chir 1929 ly 2006

The anthor reports two cases of jaundice due to chronic pancreatitis and one case of jaundice of doubtful origin

The first case was that of a woman aged twenty five years who complained of severe attacks of result of a diseased condition of the wall of the gall bladder and (3) stones of both hepatogenous and cystogenous origin represented by mixed gall stones with a nucleus of one type and successive lamine of another STANLEY H MENTZER M D

Baumgartner C J Pathological Lesions of the Gall Bladder Surg Gynec & Obst 1929 zir ,So

The lesions in a series of 4 575 gall bladders were classified according to a simplified grouping and the clinical manifestations in each group studied for comparison. There are no characteristic symp. toms or clinical signs to differentiate the apparently earlier types of cholecystic disease but the later stages of the condition present certain typical find

The clinical features of chronic catarrhal chole c) stitis and strawberry gall bladder or cholesterosis were identical The occurrence of stones in a fairly high percentage of gall bladders showing minimal pathological change indicates that the gall bladder

may assume a normal appearance between attacks Chronic fibrous cholecystitis showed a higher incidence of gall stone colie jaundice chills and fever than the groups of chronic catarrhal choic cystitis and atranberty gall bladder or cholesterous Stones were present in 80 per cent of the cases in

this group Acute and ubacute cholecystitis may occur without an appreciable increase in the temperature or leucocytosis Galf stones occurred in 66 per cent

of the cases The symptoms of empyema of the gall bladder ary greatly The chronic form is usually not accompanied by grave manifestations the acute form not infrequently is fulminating Stones oc curred in 96 per cent of the cases

Gangrene of the gall bladder to associated with marked clinical manifestations. There is marked tenderness and the temperature and leucocyte count are higher than in the acute forms Stones

occurred in 96 per cent Hydrops of the gall bladder was as occated with stone lodged in the cystic duct in 96 per cent of A mass was palpable in 20 per cent The patients were not nearly so ill as patienta with

acute emprema or gangrenous cholecystie disease Papillomata occur more frequently than the re The single papilloma is friable norted frequency and easily overlooked. The relation between pap illoma and malignancy is problematic

Adenomata always occur in the fundus \ormally glandular tissue is not present in the tundus of the gall bladder ats pre ence in some cases may partially explain the occurrence of adenocaremoma in this

situation

The common types of malignant lesions of the gall bladder a e cartinoma simplex adenocar cinoma squamous celled epithelioma papillary carcinoma and sarcoma Stones are a constant factor Chinically malignant conditions of the gall bladder may be classified in two groups In the

first group the history is that of mild cholecystic disease in the second group that of colic of long duration with a short terminal phase of foss of appriste loss of weight and constant pain and in the third group that of colic of short duration with a coincident malignant phase of loss of wer ht anoreua and pain

Firman R Arneson N and Graham E A. The value of Blood Amylase Estimations in the Diagnosis of Pancreatic Disease A Clinical Study drek Surg 1929 XIX 043

A large percentage of pancreatic lesions are un recognized until laparotomy or autopsy is performed. Clinical attempts to recognize pancreatic disease have been disappointing. However determinations of the amylase content of the blood serum seem to be of some promi e as a diagnostic aid. Laboratory data suggest that probably a large portion of the blood amilase is of pancreatic origin. In dogs has tion of the pancreatic ducts led to a prompt increase in the blood amylase to as much as seventy five times greater than the normal amount in a period of twenty four hours. After two weeks the concentration gradually fell to normal \t necropsy the paneress

was found bard and showed atrophy of the acim As experimental findings of workers using the Wohlgemuth or the Moeckel and Rost methods of amviase detection have been more or less variable the authors devised a new method which they have found to be simpler and to yield more consistent re-It to based on the diminution of the viscos ty of a starch solution By means of this procedure it is possible to follow quantitatively and continuously the course of the diastatic reaction that is the breaking down of the starch to dettro-e as each step of the reaction involves the hydrolysis of larger to smaller molecules and hence a reduction of visco ity I very step of the diastatic reaction is measurable af the same time. Time is used as a measure of ent) me concentration The measure of time is made with a stop watch the difficulty of selecting a color change as in the Wohlgemuth method being thus obviated The authors describe the method in de ad

Standards were obtained from twenty five pa tients with a normal pancreas. In thenty one of twenty two cases with abnormal values di case of the pancreas was found either at operation or at autops. In ten cases the pathological condition was chronic pancreatitis in seven pancreatic malig nancy in two acute pancreatitis in two pancreatic cysts and in one case each injury of and pres ure upon the pancreas In repeated determinations on the same specimen the method was found accurate to within to per cent. In a number of patients the amplase determination gave the only indication of the pancreatic condition Jaundice had no effect on the amylolytic activity

of the blood Because of this fact the authors were able to exclude the panereas in a number of cases of painless jaundice when the clinical signs pointed to pancreatic carcinoma. STANLEY IL MENTILE M D

Pancreatic asthemia requires supportive treat ment, the restoration of body fluids and the use of clucose and insulin

Cases of different types of pancreatitis are re ported HARRY W FINK M D

Mini A Acute Secrosis of the Pancreas (Con tubuto anatomoclinico alla conoscenza della ne cros, acuta del pancreas) inn stal di chir 1929 1111 1265

Many reports two cases of acute necrosis of the pancreas which presented some rather unusual features One of the patients was a woman of sixty five years and the other a man of sixty four years. In neither case was there a history of previous intorica tion or disease, and in neither did operation or au tops; disclose any of the more frequent local or gen eral causes of pancreatic necrosis such as hthiasis anomalies of the gland ducts, and ulcer of the duo denum One of the patients presented vagotonia and hypergly czemia without gly cosuria Because of the course of the symptoms and the presence of a swell ing in the epigastrium and the left upper quadrant of the abdomen both patients were admitted to the hospital with a diagnosis of intestinal occlusion. One of them was operated upon forty eight bours and the other twenty four hours after the beginning of the disease The swelling was found to be caused by the thickened retracted omentum which was opaque and finely granular to the touch

The hamorrhage and necrotic changes lound in the great omentum in cases of panceratic necrosis are caused by activated panceratic ferments carried to the omentum by the blood or lymph. These changes occur quite certain in the authors second changes occur quite certain in the authors second of the libragian within twelve hours of the beginning of the libragian within twelve hours of the beginning of an uncertain diagnosis such findings at once in scatte examination of the pancers.

The course of acute necrosis of the pancreas is rapid and death usually occurs from eighteen to thenty four hours after the beginning of the 53 mp toms. The only hope of recovery hes in early operation.

ALBERT G. MORGAN M.D.

ALBERT G. MORGAN M.D.

Nordmann O Acute Pancreatic Necrosis and Cholecystitis (Akute Pankreasnekrose und Chole Cystrus) Chirurg 1929 1 721

Whereas formerly the co evistence of disease of the pancreas was a light bander and disease of the pancreas was a treated as acceleratal (hoere kehr) in recent award containing the conta

ease Besides the clinical symptoms the diastase val

The cholecystectomy or drainage of the common duct performed as the result of examination of the biliary tract produced no improvement in the mor tality of the operation In the author's opinion restoration of the diseased pancreas cannot be influenced by any therapeutic measure. The mor tality is about 50 per cent. In two cases in which are immediate operation was contra indicated by the nations s very poor general condition both nationts recovered after an abscess developing later in the omental hursa had been opened by a simple opera tion Accordingly the author refrained from opera ting also in seven other cases of severe pancrea titis limiting the treatment to the administration ol small doses ol insulin infusions and cardiac stimulants Only two of the patients died five others were discharged cured without operation

On the basis of his evicenence the author has come to the conclusion that the association of pancrea titus and cholecystitus is of importance chiefly as regards the prevention or diagnosis of pancreatitis and that in biliary tract diseases with a tendency toward the development of pancreatitis operation should be performed earlier However this knowledge has led to no improvement in the operative measures. The author therefore recommends that the author therefore recommends that the partial that the properties of the control of the properties of the partial that the properties of th

MISCELLANEOUS

Morley J Afferent Impulses from the Skin in the Mechanism of Abdominal Pain Lancel 1929 (CCV)1 1240

Weiss and Davis have recently reported that pattents with localized abdominal or thoracic pain are reheved of the pain partially or completely by novo cain infiltration of the skin over the painful area. They claim that this is experimental proof of Mackenzie's viscerosensory reflex theory of referred pain.

Morley reports a study of the effects of novocain militration of the skin over localized areas of pain in abdominal leasons with reference to (i) the spon taneous pain (2) the pain felt on coughing (3) the objective cutaeneous hyperalgeas as tested by light pinching of the skin and (4) the deep tenderness and associated miscular rigidity.

Spontaneous pain was abolished in six of eight cases and releved in the two others. Pain felt on coughing was definitely, selected although not to such an extent as spontaneous pain. If peralgesia was abolished. The effect on deep tenderness was slight and the effect on muscular rigidity hardly appreciable.

The results confirm the findings of Weiss and Davis but Morley interprets them differently Weiss and Davis holding to Mackenzie's viscerosen.ory

abdominal pain which had recurred over a period of six months. The first attack occurred during the night and was followed by jaundice which persisted for several days. Livery two months subsequently there were similar attacks accompanied by jaundice and fever

When the patient entered the hospital the liver was slightly enlarged and palpation revealed three painful points one over the gall bladder one high in the epigastrium and one just to the right of the um bilicu She had lost about 6 kgm She was ordered to take a lactovegetarian diet and ofeic acid During the next three months she nearly recovered her nor mal weight and the painful attacks ceased completely but a slight discoloration of the skin and con junctive persisted. At the end of the three months an attack of obstructive jaundice occurred. Ords pary roentgenograms and roentgenograms taken after the ingestion of tetra judide remained negative The clinical diagnosis was cholehthiasis perhaps with engagement at a stone in the cystic duct and attacks of angrocholecystitis

Operation revealed a rather voluminous gall blad der with a thickened wall which was filled with stones and a severe pericholecystitis with adhesion of the gall bladder to the contiguous organs. The head of the pancreas was enormous hard and bos selated Brocq removed the gall bladder and drained

the common duct

After the operation the nation! had no further at tacks of pain or jaundice but found that it was necessary to regulate her diet because after a dietary indiscretion she became conscious of a sensitive spot

in the right side

The second case wa that of a woman twenty eight years of age who gave a history of chronic jaundice and attacks of pain and fever. The diag posis was the same as in the first case. Careful ex ploration during operation failed to reveal a gall bladder. The head of the pancreus was enormous bosselated and apparently full of small fibromata The common duct was free from stones and was not distended. The hepatic duct was drained. The bile flow was very slight during the first forty eight hours but became abundant after a few days. The taundice disappeared. The drain was left in place for a month. This case was treated too recently to

permit a prognosis The author is convinced that in neither of these cases has the condition a pancreatic cincer. He be heves that it was a chronic pancreatitis because both of the patients were young and especially be cause the general condition returned to normal and

the jaundice disappeared In discussing the second case he states that ah sence of the gall bladder in man is rare. Huschke reported eleven cases in which a common duct was found Cheras and Pavel estimate the number of cases of complete absence of the gall bladder on record as thirty. In most of them the common duct was enlarged. In the author's case the common duct was of normal size In another case Brocq found a

gall bladder the sile of a balelaut with a very large

common duct In the third case of chronic jaundice reported in

this article that of a woman forty three years of age there was slight induration of the head of the pancreas Cholecystostomy was followed by im mediate disapprarance of the jaundice. Three roent genograms taken after the injection of lipsodol showed that the bile ducts were permeable but the common duct appeared constricted in the upper median portion Brocq concluded that the condition responsible for the jaundice was either a chronic pan creatitis or a partial choledochitis

Breyer J H Pancreatitis Its Treatment As Re lated to Gall Bladder Infection California of West Med 1020 121 182

A close relationship between pancreatitis and bili ary disease is recognized. The pancreatic lymphatics drain toward the head of the pancreas and the com mon bile duct and anastomo e with the lymphatics coming from the gall bladder There is a close rela tionship between the lamphatics of the gall bladder the liver and the pancress

Acute pancreatiti is hamorrhagie gangrenous or suppurative It is usually a necrotic process. The hamorrhagic form is often associated with fat necrosis and gall tones. Chronic pancreatitis is charac terized chiefly by an increase in the abrous tissue of the pancreus. In it's late stages the gland feels hard and nodular Obstruction of the common bile duct ma) result from the fibro is and tumefaction of the head of the pancreas

The cause of these pathological changes is still disputed There are records of cases in which the infec tion was traced to the appendix and to a duode-al ulcer Exidence as to whether the infection or other causal agent reaches the pancreas through the lym phatics or hy way of bile retrojected into the ducts

of the pancreas is far from conclusive

The mortality of operation for acute pancrettris has been decreased by early diagnosis and prompt surgical treatment. The di ease is most often mistaken for high intestinal ob truction or perforation of a gastric ulcer or the gall bladder All of these conditions require prompt surgical intervention. When the abdomen is opened the escape of bloody fluid and the presence of areas of pancreatic fat necross make the diagnosis positive. The bloods exudate should be a parated a it is bighly toxic. Ten ion in the capsule of the pancreas should be relieved by drainage established with Penrose drains A careful exami nation of the gall bladder should be made. If the gall bladder shows evidence of infection it should be drained

Chrone pancreatitis is usually not recognized un til an operation is performed on the biliary tract The first step in the treatment should be removal of the tocus of infection Cholecy stertomy rather than dramage of the gall b'adder is recommended Drain age of the common duct may be done with a T tube

or with catheters

One patient with hydronephrous was releved be pullative means. In the cases of two patients on suffering from renal tuberculosis and the other from suffering from renal tuberculosis and the other frome promptions to was necessars to remove the them. There patients had had not only the appendix removed but the gall bladder also. Five women who had been subjected to sulpringertomy and opphore to come with the properties of t

The lesson to be learned from this study is that in all cases of indefinite pain in the right loin a cysto scopic and py elographic examination should be made.

Muller G P Perversions of the Function of the Diaphragm Vinnesota Ucd 1929 xu 742

Vuller reviews the comparative anatomy the surface and the functions of the dia phragm with particular emphasis upon the nerve supply. Most of the findings of experimental in westigation support the view that almost the entire motor innervation of the diaphragm comes through the otherwise term.

Observations after unitateral phrenic everess shower attention and the with hemiparals as of the duphragm. Even after the phrenic nerves on both sides have been frozen the diaphragm will move to use have been frozen the diaphragm will move to a certain extent because of motor impulses trans mitted by way of the accessory derivation. Neu motor has reported a case in which the diaphragm was practically immovable for three years after bulsteral inherincoloms.

The movements of the diaphragm may be de iemaned by observing Litten's phenomenon by palpating the costal margins and by \ ray exami

The sensor, nerve supply of the diaphragm was determined by Capps and Coleman by direct pressure with a beaded wire Pain may radiate down ward to the abdomen or unward to the neck

Immobility of the diaphragm may follow lateral pre-sute on the phrenic nerve such as is caused by pleural evidates and mediastinal tumors

Hiccough is a clonic spasm of the diaphragm. It may occur in exhausting illnesses after operations and as the result of reflex causes. In five cases Muller froze both phrenic nerves for its rehef

Phrenic nerve interruption is employed to cause theiapeutic collapse. Unless the paralyzed dia phragmatic leaf is fixed paradoxical movements will be observed.

Eventration of the diaphragm nearly always occurs on the left side. It is not an uncommon condition. Viuller favors repair of diaphragmatic through an abdominal incision after preliminary feezing of the obtenic nerve.

Il poventilation of the lungs frequently results after operations on the upper part of the abdomen because of limitation of movement of the dia phragm to splinting of the muscles tight dressings or abdominal distention. Muller believes that the

disease for which the operation was performed may be responsible for loss of power in the daphragm In nuncteen of twents five cases studied distinct hypo-entialization occurred After operation, the tidal fluctuations were diminished about one half, and the \tau as showed definite diministion in the chest volume. The entire respiratory act was depressed and obstruction was favored by the resulting decrease in the size of the bronchial lumina. The first of the time is the correct was also as the contract of the size of

Truesdate P E Hernia of the Diaphragm in Children J Am W Ass 1929 xcm 1538

CARL GARNIDE M.D.

The author reviews the symptoms diagnosis, and treatment of diaphragmatic herma in children and draws the following conclusions

 A normal diaphragm is essential for perfect physical endurance
 The vast majority of defects discovered dur

 The vast majority of defects discovered during life are of congenital origin
 Congenital hernia involving the stomach alone

and revealed in infancy or early childhood demands surgery only when disturbing symptoms persist a Congenital or acquired bernia of the dia phraem involving the transverse colon should be

dealt with by a two stage operation (preliminary excostomy) regardless of the sge of the patient

5 While children withstand operation sur

prisingly well the risk of shock will be reduced by the use of a mechanical respirator with intratracheal anæsthesia John J Malovey M D

Elward J F and Otell L S Non Traumatic Diaphragmatic Ifernia im J Roenigenol 1929 xut 535

The authors report six non traumatic diaphrag matic herms seen by themselves and one seen by Vierritt Three of the former were proved at operation two were not operated upon and one could not be demonstrated at autonsy

The ages of patients with non traumant dia phragmatic hernia have ranged from five to account years. The condition is more common in common in than in men. In many cases it may be accounted for by congenital abnormal development of the mental bursa or interference with the normal closure of the pleuroperitoneal membranes in fetal like. Another factor is increased intra abdominal her Another factor is increased intra abdominal authors cases there was a battery of whooping at some cases there was a battery of whooping cough six months prior to the patients a entrance to the hospitals entrance to the hospital sentrance the hospital sentrance to the hospital sentrance the hospital sentrance to the hospital sentrance to the hospital sentrance the hospital sentrance to the hospital sentrance t

The symptoms may suggest gall bladder disease or duodenal ulcer Regurgitation and distress after eating are often relieved by the recumbent position Pain may be present with flatulence and belching

The diagnosis can be made by careful room genographic examination of the lower part of the examined in reflex theory, believe that the impulses pass along the splanchine acres to the cord segments where they set up an 'irritable focus and that normal afferent inpulses from the perspherital stricture pass through the irritable focus gaving rise to panish sensations referred to the perspheral structures. Modey states that these experiments do out prove the truth of the viscerosmony, reflex theory or referred pain any more than they prove the truth of his theory, of pertonecutaneous radiation but they demonstate that either the one theory or the other is the correct explanation.

In a previous article Modey presented evidence that the localized pain in the right line fossa in accuracy appendictits is the result of stimulation of the exquisitely sensitive panetal pertoneum and that the affected splanchein energy from the appendix are not concerned. The initial epigastric pain is a purely visceral nain.

The occurrence of shoulder tip pain when the undersurface of the diaphragm is stimulated by an stritating fluid as following the perforation of an ulcer or when under spinal anæsthesia a swab is applied to the undersurface of the diaphragm offered a chance to prove the pentoneocutaneous theory of radiation. The possibility that the splanchuic nerve may act as the conducting mechanism is ruled out since it is generally admitted that the ensory libers of the phreme nerve are the afferent mechanism In one case of ruptured duodenal ulcer it was found that infiltration of the shoulder tip area abolished the spontaneous pain in that area and in another it gave marked relief. In both cases the localization of the fluid was in the right subphreme space and the right shoulder tip area was infiltrated When under spinal anasthesia a swab was applied to the domes of the diaphragm during the process of cleanant, the pentoneum the resulting pain was acute in the left (uninjected) shoulder tip area in both cases when the left dome was touched but only mild pain was felt in the innitrated shoulder tip when the right dome was touched

These indings indicate that the pain is produced by a process of pertuneocutaneous radiations since radiation of pain to the shoulder tup by the splaceh one rite is not possible. Americkies of the skin over the shoulder cut off the normal afterent stream thereby proloundly modifying the sensation of pain although the direct affectent path through the objection cut to the brain tensus open.

Lowsley O S and Twinem F P The Differential Diagnosis of Pain in the Right Side of the Abdomen, with Particular Reference to Uro

L S PLATE VID

logical Lesions J 4m M 4s; 1079 xm 16t; Pan in the right upper quadrant of the abdomen may be due to various lesions of the fiver the pyloric end of the stomach the grill bladder duodenum right kidney colon or appendix or even the pan creas Among the causes of acute pan in the right lower quadrant are acute apprendicits salpingits

distention of the execum with gas calculus in the right ureter twisting of the pedicle of a cyst of the right ovars acute uretentis lead colic pelvic abscess retained right testis periostitis of the illum and local injury The more common causes of subacute or chronic pain in the right lower quadrant include most of the pathological conditions just enumerated and an addition movable right kidney tuberculosis of the right kidney and ureter car cinoma of the execum ulcerative cohtis aneurism of the right diac artery abocatcal kink (Lane) pen appendicular adhesions pencecal adhesions proas abscess sacro than joint disease tuberculosi of the hip inflamed or tuberculous that lymphatic glands intestinal obstruction from any cause obturator hernia herpes zoster, angioneurotic ordema infec tive arthritis and osteo-arthritis of the lumbar verte hre dysentery typhoid and sarcoma o teoms and chondroma of the diac bone. It should be borne in mind also that not infrequently lobar pneumonia pleursy and other chest condition may be the source of pain referred to the abdomen

On account of the great variety of possible causes of right sided abdominal pain it is not surprising that errors in diagnosis in cases presenting this

symptom are by no means rare. The four most common causes of pain in the right upper portion of the abdomen are (i) the appendar in high postion (2) indextion of the bilary inst. (3) acute and subscute perforated gainte or donal ulcer and (a) subdisphragantic absects libracessary to take an accurate history in these cases. The mental male up of the patient should be seen sidered us interpreting the significance of the pain of which he complians.

In from 1, to per cent of cases of leases of the benefits and uterter persons operations had been performed without ruled. Special at attent shadle to give to (1) structure of the uteric (specially in somen) (3) Indied uteric (which may be due to real plots) (3) redundant uterier or because with the sheath (4) absent from 1 reads so placed as to interfere with draining from trails so placed as to interfere with draining from trails cause of hydronephross.) (3) malpositions of the

Ludnev and (c) horseshoe Lidney
Thirty one of the authors patients had had the
appendix removed without relief of symptoms. The
of these patients were found to be unitering for
right ophrophosis with hinking of the under of
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Seven patients suffered from stricture of the ure ter The pain for which the appendix had been re moved was relieved by mere dilatation of the ureter

GYNECOLOGY

HTEDHS

Welsh D A Cancer of the Uterus Some Facts in Its Life History and Their Clinical Significance J College Sure 1ustralasia, 1920 n 2-4

The aterus is among the common sites of the can cers causing the greatest loss of useful burnan life The types of cancer that take onem from the uterus are remarkably limited to two main forms (r) the well known adenocarcinoms of the endometrium and (2) the more common squamous caremoma of the cerus

The biology of a uterine cancer is clearly reflected in its morphology. As each of the great cancers of the uterus has a remarkably definite and constant structure it may be identified with certainty by the examination of a small fragment and as each has a constant and definite life history its chinical course may be predicted with considerable certainty when its structural type is known

The initiation and continuation of a cancer are rendered possible only by a profound biological dis turbance in a group or groups of epitbelial cells whereby these cells acquire 'an irreversible patho logical momentum toward something more than mere cell reproduction which is not necessarily cancer Cancer cells acquire an uncontrolled in dependence of growth together with (1) a variable but often strong capacity for invading other tissues and (a) a variable but often strong, power of impart ing a cancer stimulus to adjacent non-cancerous cells, causing the latter also to become cancerous in situ

It is generally agreed that the immediate problem ol cancer theraps is how to control the growth of the lesion and restrain its invasive penetration. Its in fective spread is not so generally recognized study of the life history of cancer has more than an academic interest. We can do little to prevent the development of cancer but we can do much to pre

vent death from cancer

All true cancers arise from epithelial cells that is tissues which have already taken their share in the work of the hody As yet no single and specific cause of cancer is known It is becoming increasingly evident that there is at least one common factor predisposing to all cancers and that possibly there are two the one heredity, and the other senescence The importance of heredity has been established by investigations of the occurrence of cancer in strains of mice and studies of cancer families It is probable that cancer does not start unless the host has inherited a predisposition toward it. A patient with a strong family history of cancer and suspicious choical signs must be regarded in a different light than a patient with the same clinical signs but no such history

Cancers of the uterus afford one of the most conwincing examples of the predisposing influence of senescence as the age incidence of cancer attains its maximum in the fifth decade that is, toward the end of the child hearing period. In other words cancer of the uterus as most liable to develop at a time when the tissues of the uterus have come to the end of their functional usefulness. It is not so much the age of the patient as the senescence of the tissue con cerned that determines the onset of uterine car CIDOTIA

Chronic irritation and damage appear to be addi tional causes of the origin of many cancers

An analysis of the life history of an established concer reseals three fundamental characteristics com mon to all cancerous growths though they are not all developed to the same degree in the different cancers (1) growth by the division of cancer cells to form other cancer cells (2) invasion of adjacent tissues by the cancer cells thus formed going on to the permeation of lymphatics, penetration of blood and lymph vessels and various forms of metastasis and (2) lateral extension of the cancer area by the passage of a cancer cell stimulus from cancerous to non cancerous epithelial cells so that the latter become cancerous in silu. The most potent atimulus to cancer gmwth is cancer growth. The cause of the further development of a cancer is not merely the continued operation of the same causes that started it to grow There is a passage of a cancer influence or cancer stimulus from the cancerous to the non cancerous epithelial cell Such a stimulus may be an ultramicroscopie microbe-a true cancer parasitebut the evidence in support of this possibility is not altogether convincing. It is more probable that the stimulus is of the nature of a ferment capable of endowing the recipient cell with all of the unique properties of a cancer cell—the power of independent growth the power of invasion and the power of im narting to other cells the cancer stimulus which it received from the other cells

The diagnosis of uterine cancer should be made early and exactly because of the ease with which the lesson can be exposed. It can be done only by clinical examination hiopsy, and histological examination HARRY W. FINE M.D.

ADNEXAL AND PERIUTERINE CONDITIONS

The Permanent Results of the Operative Treatment of Adnexal Inflammations (Ueber die Dauererfolge der operativen Behandlung von Adnexentzuendungen) Monatesche f Geburtsh # Gynaek 1929 lexxii 296

The author studied the question of the perma nent results of the operative treatment of adnexal

was based

the right and left oblique and the Trendelenburg positions Pressure should be made on the abdomen during deep respiration. The condition must be differentiated from other defects of the resophagus and stomach

Maoy surgeons prefer the thoracre approach to diaphragmatic hernia Of fifty three cases reported in 1012 this approach was used in eleven Seven of the patients recovered and four died. Of the forty two patients operated upon by the abdominal route, seven recovered and thirty five died Many of the last group had intestinal obstruction at the time of the operation. The abdominal approach

was used in one of the authors cases MILLIAN J I REKETT M D

Gibson F S The Diagnosis of Diaphragmatic Hernia with Acute Obstruction J Im M Ass 1929 XCID 1719

From a review of the btetature one is impressed with the infrequency of correct pre-operative or antemortem diagnosis. Five phy sical signs are to be noted (1) displacement of the heart (2) drawing in of the abdomen, (3) totestinal noises in the chest (a) a change in the percussion note and absence of

breath sounds and (5) variation in the character of the signs wheo the patient remains motionless as well as when he changes his position

The author reports three cases of traumatic dia phragmatic hernia in which it was difficult to em ploy the aid of the roentgenologist because of the patient s condition Careful study of the signs and

symptoms was therefore of the utmost importance In each of the three cases reported there had been an injury in one a stab wound in another a fall and in the third a crushing injury to the upper por tion of the abdomen All of the symptoms noted were dependent upon complete obstruction of some portion of the gastro-intestical tract associated with certain secondary phenomena incident to the in clusion of an abdominal viscus within the thoracic cage The physical signs a ide from the evidence of obstruction were limited definitely to the thorax and an exact diagnosis could be made with the means usually employed to routine examination Displace ment of the heart to the right and evidence of re laxed tissue at the ba e of the left lung associated with fixation of the costal margin on the same side were the important signs upon which the diagnosis HARRY W FOLE MD

Most of the grafts take. When the menopause occurs it is generally more prolonged gradual and analogous to the normal menopause than if grafting

has not been performed

Of the authors thirty one patients treated by onann translantation twent) fix were traced Sr in shown the uterus was conserved menstruated Fix and the more treated with the monatest symptoms of the mateten subjected to historectomy 4 r per cent were free from menopausal symptoms were mild in 63 per cent moterate and in 10 per cent methods and in 10 per cent moterate and in 10 per cent severe

T FLOVO BELL M D

EXTERNAL GENITALIA

Varkov \ The Construction of an Artificial \agina from the Urinary Bladder (Kuenstliche \aginabildung aus der Harnblase) Z 4kus 1920 xl 3

The use of the unnary bladder for the construction of an artificial vagain as justifiable only when the bladder is unsatisfactor, as a unnary reservoir and cannot be made satisfactor. The purpose of the operation is to render possible the performance of sexual intercourse. In both of the author's cases there were vagual rectal and vesical defects caused by severe portarted childburth.

In the first case the urethra had been completely destroyed and the posterior wall of the bladder formed a closea which extended into the degenerated sair tissue of the vagina. On the posterior wall of the vagina between two bands of scar tissue there was a rectovaginal fistula 3 cm in length.

Operation was performed in two stages under spin almanshess. The credit figuli was corrected and then the artificial signs as as constructed. The positions and the signs are sufficiently signs as constructed. The position was constructed to the construction of the terms and signs and to the lateral walls of the bladder witer mobilized and satured to the remnants of the vagna thus covering the defect in the vagina of the vagna thus covering the defect in the vagina of one and a half months the urcters were transplanted into the rectum tubal sterulization was completed and the portion vagnasis was freed from extensive adhesions and sutured into an incision in the vertice of the bladder.

The newly formed vagina was from 11 to 12 cm long and permytted the introduction of two fungers. The pittent urnated by rectum Defaccation occurred independently of microrition. Cottus which at first was painful became quite painfess.

In the second case there was a pernueal tear with scar formation and in the scar a rectal fishula 2 cm long with its upper burder adherent to the posteroor wall of the bladder which had been completely destroyed Only 3 ½ cm of the anterior portion of the urethra remained and this was obstructed. The vagina had been destroyed and was embedded in sear tissue

Seven operative procedures were carried out. Su ture of the rectal fistula was unsuccessful as was su ture of the vesical fistula. The rectal fistula was finally

closed after the formation of an artificial amus. Then a plastic operation was performed and the artificial anus was closed. The uteler was transplanted into the rectum a hilateral salipingo ophorectomy, was done and the urmary bladder clevated and freed above the symphysis to the abdominal aponeurouss. It was necessary to suture the bladder wall directly to the skin of the vulver ring. The bladder mucos covered all sides of the destroyed vigina. The newly formed vagans was from 11 to 12 cm long and per mitted the introduction of two fingers. Cottus was absolutely paniless.

Gorizontov N The Treatment of Primary Car chroma of the Vaglina (Zur Therapie des pri maeren Scheidencarcinoms) Sibirsk Irch teor 1 Hin Med 1918 in 542

Primary carcinoma of the vagina is rare. Ve cording to ffeeli its incidence is between 1 s and 2 5 per cent. Operative treatment is to be recommended only rarely as its results are usually very poor. Combined roentgen and radium treatment offers better prospects and is used in most clinic. The author discusses in detail the methods dosage and results of this treatment in some of the leading clinics. One of the tables shows that in 146 cases the results of the contract of the period from 103 to 1936 (most of which were importable) a five year cure was obtained in 16 (109 per cent). Up to the present time the primary mortality has been difficult to determine.

The author reports the technique used and the results obtained in seven of his own cases. In two of four (three inoperable) which were treated with combined roentgen and radium irradiation primary healing occurred within an observation period of thir teen and eight months respectively.

Treat (G)

Brady L Pfforoma of the Vulva Containing an Epithelial Inclusion Cyst Arth Surg 1929 xiv 1061

Fibromata of the vulva are not common. Fewer than 175 have been reported. The majority arise in the subcutaneous connective tissue but quite a large group originate in the extrapentoneal portion of the round ligament.

These tumors usually appear at first as firm smooth round or oval nodules under the skin. They may become peduriculated as they increase in size and max have a marked resemblance to a male scrotum. They are firm to palpation unless the circulation becomes impaired. They vary from small nodules to tumors of enormous size. It has exceed the control of the control of

The author reports a case of large fibroma of the vulva which probably originated from one of the terminal fibers of the extraperitoical portion of the round legament. It had appeared as a small nodule ten years previously and had become a pedunculated

inflammations in the material of the Brislau Univer ity Gynecological Clinic. This question is of great importance because in the majority of the cises the operations are performed at an age when the see organs are essential not only for sexual function but also for the centeral health.

In the Brealau Clinic as in almost all clinics only chronic cases treated unsucce sfully fire a long time by conservative measures are operated upon unless vital indications necessitate immediate surgery. Yo routine treatment is cyrried out the indications for operation being determined after a honer or shorter.

period of conservative treatment according to the findings in the particular case

The records for the period from 1924 in 1927 show a decrease in the frequency of operation even though as compared with the frequency of surgical treat ment in other clinics (from 10 to o per cent) it was quite high (36 per cent) Comparison of salmagec tomy stomatoplasty and defundation with the more radical operations shows that the primary mortality of the latter was twice as high as that of the conservative procedures but a review of the permanent results (the time between the operation and the follow up examination varied between one and four vears) showed that the results of salpingectomy were considerably poorer than those of the more radical results especially as regards freedom from recurrence The disadvantages of radical surgery as regards castration symptoms are relatively slight implantation of the overy did not prevent castration s) mptoms

While the radical operative methods are undoubtedly preferable convertantly measures are not unjustified unice of the women operated upon conservative), so per cent became pregnant. Neverthe less conservative operative procedures should be mind of the radical operations. In the mind of the radical operations in the mind of the radical operation in the radical conservative of the radical operation. In the more importance than the better properation are permanent cure offered by radical operation as decigned that can be offered the radical operation as designed that the radical operation as the radical operation

ALAS DIERAS ()

Martinotli A Faperimental Studies of the Motor Function of the Fallopian Tubes (Ricerche pen mentali sulla lunzione motoria della tuba failop pana) kii ilul di ginec 1929 x 221

The author reports experiments carried out with human and rabbit fallopian tubes. The tubes were isolated and perfused with Ringer's solution in a spe-

cial apparatus which he devised

In the human tube. Martinolli noted definite movemen both the longitudinal and the circular tome of which were independent of each there and some of which were sporger. It gaugitor cells are necessary for peristalitic movements and such cells rould not be demonstrated in the walls of the tubes peristalitic movements were observed only when groups of ganglion cells of the oursan plexus

or Frankenhaeu er's ganghon remained attached to the specimen. The rhythmical rontrartion of the longitudinal muscles which were een nall cases and were not affected by cocaine or atropin were evidently automatic muscle movements.

The intensity and frequency of the automatic movements seemed to be related to a rertain extent to the cyclic periods of the ovary While the differ ences were not very great the movements seemed to be less energetic and less frequent in the first part of the cycle that is the period of development of the follicle which corresponds to the proliferative phase of the endometrium than in the third phase after rupture of the follicle when the ovum begins its passage through the tube the formation of a corpus luteum begins and the secretors phase of the endometrum occurs. In the latter period the contrac tions were more intense and more frequent. The cir cular fibers were mactive in the first part of the cycle and began to function in the last days of the third part when there was apparently an increase in the automatic excitability of the tube such as or urs also in the beginning of pregnancy

The increased excitability of the smooth muscle tibers of the tube in the third period of the cycle wa noted also in the rabbit fallopian tubes

STORES G MORGES M.D.

Albano G What Happens to the Introduced lodized Oil After Salpingography? (Was geschieht mit dem eingeluchten]o joel nach nier Salpingographie?) Zentralb! Gynaek 1929 p 184

On the baws of two cases of bulateral sactosulput which he had under observation for four west as at months respectively and in which he made frequent \ \text{ra} is estimated as it months respectively and in which he made frequent \ \text{ra} is estimated as the author behaves that solding of calcareous incrustations and even and stone formation \(The is not refusion for the solid and even and the solid and the solid

Norris C C and Behney C A Ovarian Transplantation with the Report of Thirty One

Cases one Give & Obst 19 9 xlix 642 In ca es treated by the authors in which the re moval or all ovarian tissue was imperative trans plantation by the Blair Bell method was practiced The technique is described in detail. The authors divide the overs into small pieces as they believe that when the grafts are small they become sas unlarized more quickly and there are more takes the development of multiple retention cists is lest upt to occur and the grafts are less apt to become tender The graft is introduced into the rectast muscle and completely surrounded by the muscle Strict asepsis and bamostasis are essential grafts probably do not the more than two or three years They frequently become tender for a day or two each month They rarely cause serious trouble

OBSTETRICS

PREGNANCY AND ITS COMPLICATIONS

Stiere The New Formation of Muscle Cells in the Wall of the Pregnant Uterus (Die Neubldung von Muskelzellen in der Wand der schwängeren Gebaer mutter) And An, 1929 1221 27

The author shows that the observation of Noelliker (sky) that numerous new muscle cells are formed in the will of the uterus during pregnancy has correct. The sail of the uterus which consist of derivatives of the mesenchymal tissue is stimulated to unusual sworld using pregnancy first by the rapidly growing ovum, and second by the hormones of the embryogerm. As Sellbeim asys, the Uterus requirectates

The mesenchyme of the uterus can easily be simulated to special function as we can find in it bittorytes in the form of resting wandering cells in the loose connective tissue and in the form of adventitis cells. In addition, the blood contains und ed-cloped mesenchyme cells in the form of lymphoytes which can change themselves in the tissue with the and of historytes and in this way to the different

cell forms (Maximow and Bloom)

The author shows that the muscle cells are connected with each other hy very deheate hadges of plasma and therefore form a net like syncytum Nevertheless two layers can be distinctly differen tiated First there is the supravascular layer, the superficial layer which hehaves in pregnancy just as it was formerly assumed to behave that is the cells enlarge without increasing in number and decrease in size sgain during the puerperium. This layer is poor in connective tissue Second there is the vascular and submucous layer which is rich in connective tissue. In this area numerous new muscle cells are formed during pregnancy from the historytes and from the lymphocytes of the blood which escape from the blood vessels. The author observed this Process up to the third month of pregnancy After the fourth month scarcely any lymphocytes are found hut large numbers of histocytes are formed in the vascular walls which after their separation again become muscle cells. Other histocytes change themselves into fibrocytes and of these some are agua changed into muscle cells toward the end of pregnancy

Therefore the vall of the uterus shows an increase in muscle cells at the end of pregnancy. The next muscle cells develop from (1) special forms of battorytes (myelohilasts of Joachimovits) (2) the historytes of connective tissue and the adventuta cells of the vessel walls (3) the lymphocytes of the hlood and (4) large filtoryte flow.

During the puerperium a large number of muscle cells are destroyed. The mesenchyme takes over the

role of scavenger of the decomposition products. Macrophages are formed from the historytes and also from the lymphocytes of the blood which escape in spite of the presence of a relative anxima Strikingly few neutrophile polymorphonuclear leuco cytes are to be found in the wall of the uterus during the puerperium. They be usually within the mucous membrane and there take on the scavenger work. Many of them wander out into the cavity of the uterus and are expelled with the locking.

Dieckmann W J Further Observations on the Hepatic Lesion in Eclampsia Am J Obst & Grace, 1020 XVIII 757

Although the Icsion produced in the experiments reported in this article was not the typical lesion of eclamous the author believes that the mecha nism producing it was the same as the mechanism causing eclampsia in the human female. He attent utes it to the convestion of red blood cells in the portal vessels of the midzonal area with hamorrhage beginning at this point and necrosis in the involved tissues. He concludes that, as a result of marked hamorrhage and nectosis as well as portal throm bosis produced in some of the cases, substances absorbed from the intestinal tract and concen trated in the portal system overload the portal system under the conditions of the general circulatory injection of tissue fibringen and consti tute an additional factor hunging about coasula

One of the striking features of the lesion was the rapidity with which extensive damage occurred as was evidenced in the case of a dog which received it c cm of Jung extract one hour after a full meal and died three hours later. This result suggests that when an extensive lesion occurs in human eclampsis it may develop rather suddenly. The author's findings emphasize the importance.

of hunting the intake of meat protein and main taking good intestinal hygiene in the last months

nf pregnancy

In the discussion of this report, Furco stated that in extraining the liver in a very early case of eclampias he found the entire fine hepatic state of eclampias he found the entire fine hepatic state of the system thromboard. On careful staming it appears that the lesson began with hyaline necross of the modothelal cells of the hepatic arternoles which was followed by fusion of the muscle coats of those vessels. Eving concludes that no lesson produced in the portal system would cause such infarcts. It is not the opinion that the hepatic lesson is most marked because the disease is essentially a disturbance aff the function of the liver.

L L CORNELL M D

mass 15 cm long. It contained a tube lined by several layers of squamous epithelium which was probably produced by trauma that forced a strip of skin down into the tumor. T FLOVE BELL, M.D.

MISCELLANEOUS

Pascali S A Case of Lactation in the Non Pregnant and Non Puerperal State (In un caso di regolare portata latter fuori della gravidanza e del puerpeno) Clin osici 1930 xxxi 537

The case reported was that of a voman muetem exacts of age who first mentstrusted at the age of twelve vests. Menstrustion had been regular but scant. It has age of vetteen tears the patient was married to a man who was suffering from polimonars tuberculous. The Wasserman test was negative in both. The patient said that soon after her marriage without suction or and other provincation she began without suction or any other provincation she began had progressively increased. It the same times she began to gain in weight. Her weight had increased from 47 to 65 kgm. Suping-oophontus was found on the right side. The vetterall generated were normal.

The author reviews the theories regarding factation in the nonpregnant state and concludes that in this case the factation was due to defective ovarian secretion. The theory of an antagonism between

ovarian secretion and lactation was confirmed by the fact that the secretion of milk and the size of the breasts diminished on the administration of ovarian extract AUDREY G. MORGIN, VI.D.

Frasstneti P Pelviperitonitis Immediately Foliowing Curettage of the Endometrium (Pdiperitonite ad insorgenza Immediata consecutiva mente a rășchiamento dell'endometrio) Polidis Rome 1020 xxvii șez chi 143.

The case reported wa that of a girl seventeen vears of age who was subjected to curettage for metrorrhagia.

Dilatation was effected with a Hegar dilator.

The author states that curettage may cause infetion of the pelvic pentoneum be carrying batter into the uterus from without be opening up an fected cavit, thereby bringing about endogenou fection or be injuring the walls of the utered of the uterus of the state of the uterus of the state of the unique of the uterus of the atthet are so less in number or of so low virulear that their would not cause infection in the absence of such night.

For the prevention of infection Frassneti suggests
the use of modified Hegar dilators with four groots
in the sides to permit septic material to flow out and
prevent its being forced into the tubes

AUDIES G MORGES MD

OBSTETRICS

PREGNANCY AND ITS COMPLICATIONS

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NEUMANN (G)

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Heine L Ocular Indications for Interruption of Pregnancy and for Sterillzation (Ueber okulate Indikationen zur Unterbrechung der Schnanger schaft und zur Stenhmerung) 4rck f Augenheult 1929 C C1 439

Four groups of ocular indications for the in terruption of pregnancy are suggested but only the first is a strict indication

- I Nephrosis as manifested by (1) retinitis albu minurica detachment of the retina retinal hamor rhages (b) uramic and other eclamptic visual disturbances
 - 2 Myopia and glaucoma
 - 3 Indocy clitis and chororetinitis

General involvement of the nervous system and endocrine disturbances which cause predominantly ocular manifestations

The author discusses the indications in ten cases not only from the point of view of the oculist but also from the broad social and humanistic point of view. Of narticular interest was a case of familial bilateral glioma in three children only one of whom was cured by roentgen treatment (ten years ob er vation)

Other possible indications considered are kerato conus keratomalacia pulsating exophthalmo de tachment of the retina hypophyseal tumor retinal and vitreous hamorrahages and various general adments with ocular manifestations. Heine says that because of the lack of sufficient clinical data it is difficult to state whether pregnancy bas or bas not an unfavorable effect on these conditions

PAUL W122 (G)

Whitehouse B Abortion Its Frequency and Importance Beit M J 1010 is 1005

In 3 000 hospital and private patients. Whitehouse found that the ratio of abortions to births was 1 47 In a total of 11 410 pregnancies the incidence of abortion was 17 2 per cent and in the total 3 000 cases the number of nomen who had aborted at some time during their sexual life equalled 35 3 per cent In the cases of 1 208 pre war patients the incidence of abortion in 6 ozr pregnancies was 17 7 per cent and the ratio of abortion to births at term 1 . 6 In z 248 postwar cases the incidence of abortion was 16 o per cent and the ratio of abortion to births 1.4 8

In the cases of 493 tertiary syphilities the in cidence of abortion was 373 per cent almost identical with the incidence of abortion from all causes via 35 3 per cent Syphilis does not increase the predisposition to abort during the early months of pregnancy However if the stillbirths are in cluded with the abortions the incidence of abortion 13 increased by 22 i per cent giving the high total of 50.4 per cent In the cases of 28 congenital syphilities no abortions or miscarriages occurred

Whitehouse discusses the vitality of the germ cells and states that as parity increases there is a progressive increase in the number of women who abort The development and function of the uterine decidua are stimulated and maintained by a bor

mone elaborated first in the granfian folicle and then in the corpus luteum when the oocyte has left the former and are controlled by the antenor lobe of the pituitary gland Of 300 nomen who gave a chinical history of 3 or more abortions utennelesions were present in 53 3 per cent and evidence of chronic inflammation in the pelvis in relation to either the genital tract or the pelvic peritoneum was found in 25 6 per cent

The largest number of abortions occur during the second and third months of gestation. Mall found 50 per cent of the ova he examined during this period to be pathological. Disease of the choron frequently co exists Pathological forms are caused by external influences rather than hy anatomical or physiological defects in the ovum or spermatotoon In support of the influence of environment is the fact that when the oyum is implanted in an abnormal position where the decidua is ab ent or defective as for example in the fallopian tube of percent of the embry os are abnormal

Impairment of nutrition resulting from faulty implantation, abnormal decidual development ab sence of essential food factors or the existence of lethal towns to a potent factor in the causation of early abortion Much importance is attached today to nutration and the influence of various foods factors upon sterility. Whitehouse discuss s at length the importance of Vitamin E

In conclusion the author states that he has had one case of contagious abortion in which Bang s bacillus was recovered from the vaginal discharge ROLLIND S CROY MID

LABOR AND ITS COMPLICATIONS

Vauchan A. Maternal Mortality and Its Relation to the Shape of the Female Pelvis Proc Rer See Med Land 1020 Tun 191

The author states that in spite of more antenatal care and better midwifers the maternal mortality rate in England and Wales shows no improvement as compared with the rate of twenty years ago In primitive countries where women are accu tomed to manual labor childhirth is associated with hitle The author believes that the difference difficulty in the maternal mortality rate in such countries and in countries in which the physical activity of women is limited is due in part to a difference in the shape of the pelvis and the development of the GEORGE W PHILLS WD sacro iliae mints

PUERPERIUM AND ITS COMPLICATIONS

Is Puerperal Chill an Anaphylactic Pasquini F Phenomenon' (be il brivido puerperale debba n leners un fenomeno legato alla anafilas i') Rir stal de ginec 1929 x 185

Recently it has been suggested that puerperal chills may be caused by ha moclastic shock. To de termine whether this theory is correct the author ex ammed the blood during the chills and made graphs

of the chills. As he found no signs characteristic of anaphylactic shock such as retardation of the co agulation time a decrease or disappearance of the platelets transitory cosmophilia, or inversion of the lescocyte formula he concludes that the chills are not anaphylactic phenomena, and that the lowering of the blood pressure and the decrease in the lenco extes occurring after delivery are due to causes other than florculation of the blood plasma. He states that Moutier and Rachet obtained phenomena simi lar to hemoclastic shock with variations in the leuco cytes on the injection of distilled water as well as of mille

Other evidence that the nuerneral chill is not an anaphylactic phenomenon is the observation made by Arthus that in does and rabbits the anaphylactic attack is not prevented by dissection of the vacus apparently therefore the attack is a peripheral nerve reaction. The graphs which the author made of the puerperal chills show that the chills are of a central and not a peripheral type and therefore can not he caused by anaphylaxis

Atmers G Morgan M.D.

NEWBODN

Roffo L A Case of Extra Uterine Life without Respiration (Sopra un caso di vita apnoica extra utenna) Clin oslel 1929 XXX 467

The case reported was that of a female child which was born at the beginning of the eighth month of pregnancy and died seven and a half hours later The mother who had had four deliveries and one abortion had a positive Wassermann reaction. The child weighed 2 060 kgm. It was 46 cm long and apparently normal It cried soon after birth and although the crying was not very vigorous it was not so weak as to cause anxiets. No special attention was paid to the respiratory movements

It autonsy the lungs were found to be solid and fleshy and looked like those of a fetus Small pieces sank in water. The stomach and intestines were di

lated and filled with air

The literature reports forty six cases of children with atelectatic lungs who survived for from a few minutes to sevents hours. In thirty one cases the lungs were completely atelectatic but in fifteen they showed small aerated zones. Some writers on the subject have claimed that the atelectasis is a nre aronal or postmortem phenomenon and that the children could not have lived in a condition of approve but Macager believes that air not reaching the already may reach territories in the bronchi in which the exchange of was is possible and that a certain amount of gas exchange may take place through the walls of the stomach and intestine which are generally full of air. Another compensatory factor is skin respiration

In a histological examination of the lungs in his case the author found that the atelectasis was not complete. There was air throughout the bronchi and a few alveofs had undergone moderate and ir regular difatation. He thinks that the insufficients of the lung tissue was due chiefly to the fact that the child was premature although the mother's suphifis may have had something to do with it

ALDEES G MORGAN M D.

hagi II Birth Injuries in the Newborn Part III
Autopsical Results of Intracranial Hagmor

Autopsical results of interestating America rhage Japanese Jobi to Conce 1220 vil 335 Yagi II Birth Injunes in the Newborn Part IV Mortality Statistics of Newborn Children and Investigation of the Cause of Death Based on Autodey Japanese J Obst & Gynec 1020 Ell 145

Of 1.11 fetuses on which autopsies were performed the cause of death was intracranial hamorrhage in 34 per cent and asphy tia and pneumonia in 28 per cent Of the cases in which death of the newborn is caused by hamorrhage the bleeding is subdural in 88 per cent leptomeningeal in 26 per cent intra ventricular in 18 per cent intracerebral in 10 per cent and epidural in 6 per cent. Hamorrhage and suffocation are closely related to the duration of the labor and the character of obstetrical intervention

ABRAHUM A BRAUDE MID

GENITO-URINARY SURGERY

ADRENAL, KIDNEY, AND URETER

Blumenthal, N The Clinical Aspects of Suppurative Paramephritis (Die Khmk der estragen Laramephritis) Lerhanfl d 20 russ Chir Kongr Moscow 1923

The author collected 1 500 cases of paranephnits of which 200 were Rustian cases and 1 500 were reported from other countries. The right and left sides nere affected equally often Bilateral paranephnits was found nonly 2 per cent of the cases. The young est patient was nune monthy old and the oldest exertly tears old.

Of the etiological factors trauma in the Lidney region and the lifting of heavy loads are the most common in about so per cent of the cases the paramephritis developed as a complication of previ ously existing pronephrosis renal calcula absor-ses carbuncle of the Lidney or renal tuberculosis. The infection spread from the kidney to the surrounding cellular tissue either by way of the hamphanes which connect the kidney with the paranephric tissues or by continuity In 3 per cent of the cases the inflam matory process spread from the neighboring organs to the paranephric tissues from a perforated duodenal ulcer infection of the biliary passages or suppura tive pancreatifis. Among these the author includes an unusual case of primary paranephritis observed by him following a direct injury of the paranephric tissues. In 3 per cent of the cases reviewed the paranephritis developed after a labor in i 5 per cent as a complication of acute appendicates and in 35 per cent metastatically following a local sun purative inflammation such as a lurunculosis car buncle panaritium eczema angina or inflammation in the antrum of Highmore

The author does not concur in the belief that in 80 per cent of the cases the paramephritis develops in the kidney itself since in several cases the kidney was found to be normal on dissection after paranephritis Blumenthal believes that the infection enters the paranephric tissue through the numerous branches of the azygos and hemiazygos vems. In the majority of cases of paranephritis he found the unine and the function of the kidney normal. The urme contained leucocytes albumin and pus only when there were abscesses in the certical hyer of the Lidnes In most of the cases the paranephntis developed on the fatty tissue is located an area which is nich in I mphatic and blood vessels and exposed to trauma It occurred next mort f equently at the lower pole and third most frequently at the upper and anterior aspects of the kidney

The treatment can be only surgical. The mortality in the r 500 cases reviewed was 1, 6 per cent. When

sample incision was done it ranged from 4 to 14 per cent whereas after incision and expo ure of the kidney it ranged from 18 to 25 5 per cent Koca (Z)

Friedrich R The Clinical Aspects and Diagnosis of Paranephrilic Abacesses [Zur klinik und Diagno lik der paranephritischen Abace el Zitakr f und Chir 1920 xxvii 12

The author divides parangabane abscess the metastate abscesses and paranghphic abscess et veloping by way of the himphates and hi count in the county. Those of the first group are caused by a hacterial embolius from a more or le sightant focus of infection. Those of the second group are sevoid of infection. Those of the second group are sevoid or in the county of the himself of the himself of the county o

When a carbuncle of the kidney is not pre-ent simultaneously microscopic examination of the unne is of little help in the diagrous during the first fen weeks. However tenderne sin the hidney remon and possible a prominence may lead to the correct diagnosis When the abscess develops at the lower pole of the kidney an inflammatory ordems and inflammation of the thopsous muscle manifested by pain on flevion and extension of the thigh may it sult. The abscess may develop into a gravitation abscess in the lacuna musculorum. In cases of ab sress at the upper pole there is cessation of diaphrag matic breathing. A cha acteristic feature is the constantly high temperature when the functional test gives no definite clue to the condition. In the hes fen needs the sediment of the clear unne presents todated leucocytes Later the urine be comes clouds. When the roentgenogram shows a rather large indistinct shadon \ ray examination may lead to the correct diagnoris

The author (see not approx of the explorator puncture adviced to man, as it is eavy to pit to approxime the approximent and the same an

The treatment consists in wide incision and dran age. After the establishment of dranage the feet untilly fall by cri is and healing soon began. In cases of metastatu, abscess the prognosis as to kee a usually very good when operation is done before perforation into the pertoned cavity over.

Of the authors four fital case two nere cases of a suppurative read process of lymphatic argin and two were cases of paranephritie above see decloping by continuity. In the author's cases of metastaric

abscesses there were no deaths. The total mortality in Friedrich's cases was 0.3 per cent.

A ROSENBURG (Z)

Thomas B A Observations on the Diagnosis and Treatment of Movable Kidney J Urol 1929 xui 603

The author believes that many patients with movable kulneys fail to receive treatment that would save them years of invalulism renal destruction, and even loss of life. Neglect or improper treatment of nephroptosus may result in perastent baciliuna or pyelists by dronephous; loss of renal function or destruction of the kidney. Thomas was all to the study of the seventy five cases which he reviews in this article by the common failure of certimal ablomand supports to provide satisfactory ritled of pain neuroses gastric disturbances and evidences of infection of progressive renal damage and the complete relief allorded by nephropey affects.

The case reviewed are limited to those of acquired displacement of the kidney, either unlateral or bi lateral associated or not with general viscemptosay. In contradistinction to cases of congenital anomaly. They include cases of simple pitosis unflateral or inlateral treated pallatively or operatively and cases associated with hydronephrous yueltits oper loosehults to penephrous calculus or timore.

It was found in this series that the subjective symptoms presented are by no means an accurate indication of the mobility of the kidney. The degree of mobility can be determined only by urological examination.

ccaminatio

Thomas states that the number of prosel kidneys demonstrated by pyelography which would remain undiagnosed without this procedure is merchible Uniteral catheternation and pyelography are of whe also because they enable the undoesn to determine the process of th

In the treatment of prosed kidney the outstanding object must be not only the relief of subjective symptoms but also the prevention of insidious destruction of the kidney by hydronephrosis and infection. Therefore an exact standardized method of routine examination is necessary. In general the therapeutic procedures may be grouped as palliative and operative In the cases of persons who are pre disposed to or have developed general visceroptosis prophylactic measures such as proper diet and ever cises designed to improve posture and muscular and organic vigor are very beneficial. The treatment recommended by I hillips cannot be surpassed. In the cases of patients who are underweight confine ment to bed for from a month to six weeks on a liberal diet is the first requisite

Palliative treatment is indicated in mild cases in which the subjective symptoms are relieved by rest

or abdomnal support and periodical urological check ups show no development or progression of hydronephronss infection or any other pathological condition in the kidney. Pallastive treatment is contra indicated when (r) subjective symptoms are not controlled by supportive appliances (r) the threat of rend damage from unmary retention and infection is not controlled (3) severe infection, calculus or tumor of the kidney is present, (4) there is rotation of the kidney or a kink in the ureter, and (5) the kidney is movable to more than the first

The author is of the opinion that the operative treatment of movable kidney has much to recommend it. He states that under no circumstances should the incidence of failure exceed 100 per cent. Surgical failures can be ascribed usually to faulty technique in fixation of the kidney, incomplete removal of fatty tissue between the posterior surface of the kidney and the lumbar muscles to which it is to be fixed failure theroughly to mobilize the kidney and ureter and free them from adjacents extended and ureter and free them from adjacents comment of the patient to bed after the operation. The patient to bed after the operation. The patient to bed after the operation.

The method of fixation used by the author is essentially that described by helly Three triple matters satures are used. The upper sature is merted through the posterior capasis at the june ture of the upper and middle thirds of the kidney and the two others are placed at lower levels. The ends of the upper suture are brought through the intercestal muscles above the twelfit his and those of the lower two sutures through the lumbar muscles of the Neway E. Saxrom M.D.

Walters W and Braasch W F Urmary Obstrue

tion and Hydronephrosis Resection of the Renal Pelvis the kidney and the Ureter Report of Nine Cases J im 1/2 list 1929 You 1770

Walters and Brassch report on ten operations per formed on mue patients at the Mayo Clims for the relief of urnary obstruction and hydronephrosis. In four cases five hydronephrotic renal pelves were resected and in four of the five cases the resection was successful. In the case in which the resection was successful. In the case in which the resection was to travel the case of the results of the control of tween the operations the results in particular that were excellent. This the authors believe a magnefart successful balterial resection on the renal pelvis first successful balterial resection on the renal pelvis first successful balterial resection on the renal pelvis first successful balterial resection on the renal pelvis for by doronephrosa which has been reported

Resection of the hydronephrotic or pynosphotic portion of a duplicated kindry was performed in three cases and ureteropy-elonicotions; for besture that of the tretter policy includes in the cases as which wreteropy-elonicotions; one of the cases in which wreteropy-elonicotion; was performed the obstruction involved a solitary kid ney and was acute and complete in the other the obstruction followed pelvoluthounty performed else where These operations also were successful in one of the cases in which ureteropy-elonicotions was

performed more than a year has elapsed since the operation

Pre-operative and postoperative systoscopic examinations innotional tests of each Ludney separatels and of both kidneys combaned and pyelograms of the kidness and their pilves which were operated on were made. It elograms following resertion of the hydronephrotic rend pyelos were practically normal in appearance. Following the operation, the dayer of infection in the kidness dimm ished and the function improved.

is not a not the function improved in only one of the nine cases was secondary ne phrectomy necessary. In this case the hydronephrous pelus had a capacity of approximately, 300 cm and infection and ordenia caused obstruction of the ureteropelors juncture. The dension to at tempt renal or ection rather than nephrectoms was probably unyou be because of the extreme degree of hydronephrous and the destruction of the renal narench ma.

nateners ma In the other cases the patients made a good clinical recovers and the findings of cystoscopic examination as regards urmary drainage and renal function were satisfactors

A short description is given of the important details of the technique of the operative procedures and the literature of previously reported cases is reviewed.

Helmholz II F Experimental Pyelitis and Its Relationship to Urlnary Infection in the Infant Brit J Child Dis 1020 VVI 14

In experiments carried out by the author on rabbits the frequency of infection of the bladder as compared with infection of the upper portion of the unnary tract and the fact that the colon bacillias after intravenous injection did not pressis in the bladder when the upper portion of the unnary tract was steril, seemed to indicate that the infect

tion was of the ascending type On the clinical side the predominance of the in fection in girl babies during the diaper age is still the outstanding feature in the determination of the mode of infection. To the must be added the observations of Schwartz who found that bacillums is twice as common in girl babies as in boxs. No one has proved that the colon bacillus passes into the circulation as the result of parenteral infection such as tonsillitis and otitis media nor in diarrhaal David and Mcfill showed that colon bacille appear in the bloodstream only after com plete obstruction of the bowel Even if colon barilli are injected into the blood stream they do not appear in the urine. It seems therefore that although results from experiments on animals cannot be directly applied to man there is enough confirmatory evidence in what is known of prelins in infance to warrant the assumption that infections with the colon bacillus take place in the same

The beneficial results obtained from treatment with alkalies in pyehits have never been satisfac

torily explained It is certain that the degree of alkalimity reached in the urinary tract is never sufficient to interfere in any way with the growth of the colon bacillus. In a series of experiments carried out by growing colon bacilli in alkaline and acid media no difference was noted in the pinogenetic power of the toxins produced. In another series of experiments in which colon bacilli were grown for a considerable number of generations in acid broth and in alkaline broth there was no retardation of growth when the organi m was transferred from an acid broth of a hydrogen ion concentration of Ph 55 to an alkaline broth of a hadrogen ion concentration of Ph 84 but in a number of instances there was almost complete inhibition of growth for from four to six hours when the transfer was made from alkaline to acid In a series of therapeutic experiments catried out on animals infected hematogenously with the colon bacillus in which mercurochrome methenamine and hexylresorring were administered, by far the best results were obtained with methenamine

In conclusion the author says that it is essential that even case of pictits be checked bacterologically before cure is pronounced and that case in which the condition does not clear up after an intensive course of treatment by methemaniae be referred to the urologist for careful study of the unnary tract.

Gérard VI The Functional Integrits of Tubercu lous Audneys in Certain Cases of Renal Tuber culosis (Intégrate fonction-lle de rens tuberculor dans certaines cas de nephrotuberculo e) I d'ur l' méd et chr 19 q 2x011 309

The author reports five cases of renal tuberculoss in which the 'imbard test was normal or nearly normal

In Case 1 the tuberculosa deseloped in two periods separated by an internal of a year and a hill Castocopo ir called the presence of gross supputs the lessons in the right listone. Ureteral carthe ends not demonstrated that the right kinding did not function and that the left kinding which was to demandly tuberculous had an excellent functional

capacit.

In Case 2 cystosropy revealed a lesson of the right
Lidney Ureteral cytheterization proved that the left
Lidney which was apparently healthy did not
fonction whereas the right Lidney which was
manifestly tuberculous had good function

In Case 3 the tuberculosis deseloped in two periods, separated by an interval of element vears Cystoscopy revealed ceatricial lesions of the right kidney and active lesions of the left kidney. Letteral catheterizations showed that the function of the right kidney had been completely destroyed whereas that of the left kidney was excellent

In Case 4 () stosropy demonstrated a marked lesion of the right kidnes. On ureteral catheterns tion it was found that the left kidney had practically no function whereas the right kidney which was

In Case 5 cystoscopy indicated a lesion of the left kidney. The orifice of the right ureter appeared normal Ureteral catheterization demonstrated that the lesions were bulateral. The right kidney, had a very good functional capacity.

PACE

Mathé C P Cortical Abscess of the Lidney

Cottcal absects of the kidney, is of two types (i) the acute humatogenous type secondary to staphs looccal infection elsewhere in the body which is usually manifested in the slan and (2) the subacute or chronic urogenous type associated with predonephritis and secondary to trainal lesions of the kidney and stosis in the upper or lower unany train.

Cottcal absects of the focal hemorrhape type is often mistaken for influence or an abdominal leason such as appendictus salpinguise gall bladder disease entire potentiers, and perinspiral baces. Its presence cannot always be disaposed from perinspiral by the relative patienty of uniform perinspiral by the relative patients of the perinspiral by the relative patients of t

Contreal abscess of the urogenous type is suggested when a patient with chrome pyelonephritis second an to unnary stams suddenly develops a chill and lever accompanied by pain and enlargement of the kidney which are not relieved by declarage with the

ureteral catheter

In the harmatogenous type of cortical abserse the infection begins in the cortex near the kidney spundeand extends toward the persphere. In twenty operation, such as deceptable on early conservative operation, such as deceptablished increasion of excise of the abserse saved the kidney from further many operations of the cortex and in one case for earbunde of the kidney. It was performed also in two cases in which increases and driving one of the cortex and in one case to the cortex and in one case to case the kidney it was performed also in two cases in which increases and driving one control to the cortex and the cortex of the cortex of

In the urogenous type of cortical abscess the infection extends toward the periphery from the collecting tubules and pelvis causing the formation of abscesses in the medulla as well as so the cortex and more or less destroying the entire parenchyma. The treatment is radical nephrectomy. This was done successfully in forty three cases cited by the author

Chute A L The Recognition and Treatment of Renat Lithlasis Minnesola Med 1929 zu 731

The stones which are held firmly in the kidney the large ones which cause atrophy of the kidney tissue by pressure as they increase in size and pre dispose to suppuration those which are especially destructive do not cause the marked symptoms

that are produced by smaller stones which block the kidney outlet and cause acute dilatation of the renal pelvis. The large stones may produce only moderate pain usually only a backache and this symptom may occur only at long intervals.

In examination of the unnary fract with the X ray, the distinct should be carefully prepared and the wide wares, tract should be roentgenographed where warms are the should be roentgenographed with the should be given after the roentgenogram of the unity tract have been made as bits of barum left in the tolestine may overthe the stone bearing area of

Shadows which may be confused with those of unnary stones are produced by intestinal gas, gall stones calcified abdominal glands, phleboliths and coloried unseels.

alcined vesse

Chute behaves that a stone in an infected kidney should be removed rather promptly. In cases of balateral renal stones operation should be urged strongly although it is perhaps not quite so imperative as in cases of stone in a single kidney. When balateral stones are present the better kidney, as indicated by functional tests should be operated upon first. When a stone is present in a kidney and another stone its present in a the ureter of that kidney both stones should be removed at the same time or the renal stone should be removed first in order to stop the destruction of renal tissue.

In Chute s opinion at is a mistake to drain a kid ney pelvis through a pyclotomy wound especially by tube drainage as stubborn fistulæ have followed this procedure. In the majority of cases of renal

stone nephrolithotomy is required

Ureteral stones associated with any particular degree of infection should be removed surgically likewise stones in the ureter which cause more than moderate pain or occasional disability. After the removal of a stone low in a ureter the urologist should always make sure that he can pass a probe through into the bladder without perceiving a sestion of grating 1,000 S GOOVE MD D.

Weiser A The Indication for Nephreetomy in Cases of Cystic Midney (Zur Indikation der Ne phrektome bei Cystennieren) Verhandl d deutsch Gesellick f Urol 1929 p 229

As the symptoms of cystic lidery are most warned sometimes suggesting pronephous's some times a malignant tumor and sometimes continues an analignant tumor and sometimes continued to the control of cases (according to Equity of cases (according to Leuras og per cent and according to the control of the contro

prorephrosis in the congenital cystic Lidney The author reports two cases in which operation was followed by a good result

The first case was that of a man twenty seven years of age who had a stone the size of a pigeon's egg and two stones the uze of peas in the right renal pelvis and three large stones in the right The stones were removed hy prelotomy and urcterotomy, but because of the infection present the renal pelvis was not sutured. Under treatment with daily irrigations it closed slowly within six weeks. Two months later it re opened spontaneously as a stone had nearn become lodged in the ureter Because of progressive eacheria and in spite of an existing fittula a nephrectomy was done. When the patient was re examined eight months later he was entirely free from symptoms

The second cale was that of a man forty six years of age who gave a history of progressive enlarge ment of the abdomen on the left side and frequent hamaturia There was no excretion of indisocar mine on the left side. At operation a large tumor of the left Lidney was extirpated through a lumbar incision. The specimen was found to be permeated. by numerous costs. Three months after the opera

tion the patient was still in excellent condition The author concludes that nephrectoms as in dicated also in cases of unilateral cystic kidney with unilateral renal tuberculosis or tumor in both of these conditions the amount of renal parenchyma is decreased by the disease itself the loss of parenchyma resulting from the opera tion is inconsequential. Moreover it is more than balanced hy the removal of the toxing of the tuber culosis or carcinoma

In the discussion of this report AVENNEL SR (Hamburg) said that he had operated upon three cases of cystic kidney. In one decapsulation was done because of hamorrhage and was successful in arresting the bleeding. In the two others neph rectomy was done four and five years ago respec tively and both patients are now cuted Kuemmel cited also the case of a child who resovered follow ing nephrectomy for cystic kidney with life threaten ing harmorrhage. In the case of an infant six months old an assi tant obtained a good result from pephrectomy for cystic Lidney with life threatening hamorrhage Kuemmel believes that children bear umlateral nephrectomy for concentral cystic kidney even better than adults. He concludes that we can abandon absolute conservatism in the treatment of cystic kidney provided the indication for operation is carefully established

CASPER (Berlin) stated that he is not convinced that we are justified in proceeding less conserva He said that while vital indications for nephrectom; base been recognized there are cases in which the operation is not absolutely indicated He has had two cases with typical symptoms under observation for seventeen and twenty five years He emphasized the importance of determining what indications are to be considered vital

RUMPEL (Berlin) called attention to the fact that there are cases in which the process of cistic degeneration has progressed to different degrees on the two sides In one case in which he performed a nephrectom, for hamorrhage the removed hidney showed complete polycystic degeneration whereas the other kidnes presented only a few eyets. The Patient is still alive. In another case in which death resulted one kidney had been split by another surgron because of suppuration and Rumpel did a nephrectomy bacause the fis ula refused to heal Death resulted from the custic condition of the other kidney OPPENHEIMER (Frankfort) reported the cas of

a patient who lived for twenty five years after a unilateral pephrectomy although the other kduer was also cystic. He agreed with Casper that the vital indications for operation must be definitely established

Semagnenere (Munich) demanded à es elul differentiation between the indications in cases of c) stac Lidney and tho e in cases of solitary c) t of the Lidney

BLATT (\ tenna) emphasized the strictly ton-erva tave standpoint of the school of his teacher Ru hritius With the aid of ten pyelograms he showed that the diagnosis of cystic kidney can seldom be made from pyelograms nor from other men's argrams He stated that the claus of Graubane that It is possible to differentiate definitely between a cystic kidney and a hypernephroma is incorrect HEV. (Berlin) reported from Borchardt's clinic that the differential diagnosis between hyperneph roma and cystic kidney from a pyelogram is very

difficult Kuember Sa (Hamburg) agreed with Schligh twest that cystic Lidney should be sharply differ entiated from cost of the ladger

A. ROSENBURO (Z)

BLADDER, URETHRA, AND PENIS

Knutsson F On the Fechnique of Urethrography

Acta radial 1929 × 437 The autho describes the technique he employs for urethrography and a penis clamp which tacilitates

the examination

He states that only 1 or cm of the so called supracollicular elongation of the po teror uterbra occurs in the arethra the remainder being due to the collection of the opaque fluid in a fold of the mucous membrane at the bottom of the bladder The clongs tion is therefore usually only appa ent and no im portance can be ascribed to it in the estimation of the size of the prostate gland

GENITAL ORGANS

Later Results of Surgery of the Gutterrez, R Seminal sesicles J Am M Ars 1979 1011 1944

Gutierrez reports the results of 100 seminal ves, cu lectomes performed in the cases of patients with gave mental disorders and chronic inflammation of the seminal vesseles. Other foot of infection had been eliminated previously. In all of the operations the period route was employed. The author states that with visualization of the organs and the use of recognized surgical technique it is possible to move the glands without causing any disturbance of physiological spermatic function. In the cast reviewed the operations were extra urchbral extraction, and evirapentional In no case did critically and evirapentional In no case did was the operation of the properties of the properties

Forty aght are celt of the patients were been fitted and some of them were discharged from the mistitution as cured. The spermatic and genital functions remained unchanged After vesculentially the simplified by the source of the spermatic and genital mornal physiological process and finally assumes the function of the vesseles becoming the reservoir of the zeron and sequinging the power of expulsion of the zeron and sequinging the power of expulsion

duning ejaculation
On re examination of patients subjected to estudetomy six or seven years previously the ampulla was found patent and easily palpable by rectal touch in more than ar per cent. The external genital organs were the same as before the operation

was performed. The prostate gland was found nor mal in about 80 per cent of the cases

IACOR S GROVE M D

Alyea E P Dislocation of the Testis Surg

A search of the literature from 1800 up to the present time revealed only twenty three cases of traumathe furation of the testis. The author reports two more—one a compound dislocation that was successfully treated by open operation and the other the first true traumatic crural testis on record

other the first true't realistatic draft festion strong through the first true't realistation of the dislocated testis depends upon three factors (t) anatomical abnormalities (3) struction to subsociation in certain directions, and (3) the direction and force of the flow. The usual cause is seeven injury such as that inflicted by asgon wheels passing over the genital and inguinal region and other seven crushing injuries about the scrotim II is a first the service of the service of

In six of the cases reviewed the dislocation was of the puber type in five, of the superficial impainant type in three of the penile type in two of the penile type, and in three, of the inguinal enail type. In three cases there was a compound dislocation of the tests through the strotal wall. In one ease it was impossible to determine the site of the dislocated testis exactly.

The results of treatment are good

SURGERY OF THE BONES, JOINTS, MUSCLES, TENDONS

CONDITIONS OF THE BONES, JOINTS MUSCLES, TENDONS, ETC

Pearse II E Jr and Morton J J The Stimula tion of Bone Growth by Venous Stasis J Bone & Joint Surg 1930 vii 91

The authors describe experiments which they car ried out on dogs cite reports from the literature and report two clinical cases which show that fractures with delayed union may be healed by renous statish perferma H EVER CONNELL MD

Leriche R and Bauer R Subacute Cornical Staphylococus Osteitis of the Shafts of the Lung Bones in the Adult (Les osteites daphysaures corticales subargues à staphylocoques de i adulte) Ret d'orlop 1939 xxvvi 38.

The authors report three cases of subscute cortical staphy lococcus osteries of the shafts of long bones in adults. They state that the lessons are at first very limited and unlike those of acute osteomyelitis in adolescents. As a rule there are practically no general symptoms but sometimes the temperature is slightly elevated. The first symptom is a dull pain which is not at all comparable with that of Brodie's abscess A little later palpation reveals a fusiform swelling continuous with the bone which is due to the periosteal reaction. When multiple os cous lesions develop simultaneously a search should be made for metastatic faci of infection even if it is im possible to find the primary focus from the history In cases with only a sincle localization slow evolu tion of the lesion slight pain and the appearance of diaphy seal swelling suggest sarcoma. The sarcoma of Ewing may be accompanied by a shight rise in the temperature

After subacute cortical staphs looceus o testus has progressed the rootingeongam should present error in the diagnos but in early attenuated cases the thirst roentgengram is not sufficient. When dia physical ostetus is suspected the case should be followed for severaldary. An increase in the swelling and in the lesions as revealed by a second roentgen examination bull confirm the diagnosis. Pux.

Buc) P C and Capp C S I rimary II cman gioma of Bone with Special Reference to the Roentgenological Diagnosis Im J Reent cool

Hamangioma of bone especially of the vertebrais often discovered at autopsy but seldom vauses symptoms. Of 154 bodies in which Torpier sectioned the vertebral column at autopsy, angiomata were found in 11 93 per cent

Hamangiomata occur most frequenth in the ver

pearance is that of numerous large sunburst tribeculations radiating from a common center and out from the plane of the bone. In clindraci loose, the gross routigen appearance may resemble that of a grant cell tumor but the loculations are somewhat smaller and within them there is a fine finding framework. The cortex of the bone is usually destroyed but may extend into the center of the exstroyed but may extend into the center of the expansive portion of the tumor. The perio teum remains intact.

The microscopic appearance is that of a beni in harmangioma usually of the cavernous type

The treatment is excision when possible followed by roenteen therapy

The authors report eight cares

ELVY J BERESEI ER VID

Lenche R Ewing's Sarcoma and Metastatic Staphylocome Ostelius of the Cortes of the Duaphysis (Sarcome de Ewing et ostific display are corticale métastatique à (aphylocoques) Lowchir 1020 XVI 350

Ewing s sarcoma is probably a retirude endubelut sarcoma. It occurs in the disphase of counged batteries that the country is the disphase of counged by the country is the country of the country is the latency of the country is the country in the country in the country is the country in the country in the country in the country is the country in the

The patient was a soman thirts four sens all who in the beginning of October was treated by seconston for furnishes of the beck. During the seconston for furnishes solded green reneed pain in the left shigh. This was followed by doubt welling and diffinitive in flexion of the thigh. For a year the patient is temperature had been between sp 8 and 38 decrees.

and 33 degrees C.

A reengerogram showed a small cavit in the
daphysts, which suggested actom ofths but in
other mentgerogram showed as week later suggested
and the suggested action of the state of the
most of the suggested and the state of the state of
another the suggested and all but one of them made ad,
suposo of I wany a sarroma on the basis of the second
and a third reentgenogram. When the author is
the on November 30 she was subfebrile and had
leaden color. On the basis of the sudder beginning
the littles in the course of intranculous terms
pain in the other ferming the occurrently subfeting
pressure and the rapid and a diagnost of me
formed December 3.

Incision into the most prominent part of the tumor revealed lardaceous it sue with no muscle structure and no pus. In front of the diaphysis cheere was in

able nealy formed bone and in the cortex there was a small cavity about r cm long and o or 3 mm deep such contained a soft neddes these. The salls of the cavity appeared to the contained the salls of the cavity appeared to the contained the salls of the cavity and the contained the salls of the that the tump, which is a law to the sall capitals and that the tump, what a Essing sarcoma but after re moving the tissue for bacteriological examination be left four Carrio those in place for virication

Betterological enamination showed a face of the collaboration of the classification of the collaboration of the patient recovered in two months with a moderate hyperostosis of the disaphass. The suntry believes that the vaccination rendered the staphilococci incapable of producing pus and necessity of the collaboration of

Jones H T Cystic Bursal Hygromata J Bone & Joint Surg 1930 vii: 45

Excision was carried out in each of the fifty five cases of cystic bursal hygroma reviewed by the au thor This does not mean that exusion has been done as a routine procedure at the Mayo Chinic it indicates that only cases in which pathological material was available were included in this study Subsequent information was obtained from twents seven of the patients. In two cases the time which had elapsed following the excision was three months or less. In the twenty five other cases the time in terval since the excision varied from mine and a half months to fourteen years and three months and the average time interval was five years and eleven months In none of the twenty seven cases was re currence reported Therefore it may be concluded that complete excision of cystic hygromata is likely to texult in cure

With regard to the question of the presence of thorn and binnond tissue in the process of disnate gration the author states that judging from the authors that the three presence of a bursa in one case and from the morphological and stining reactions of certain portions of sections in sections of the presence of the he believes with Robertson that it is not use to conclude that the connective tissue of and by itself changes to an intermediate substance fibration of thirmond and them to the hequefed cyst contents

With regard to the question as to whether the bound content of exist he grounds as entirely degen eather in origin or at tunes is partly made up of a transulate Langemak held that he grounds represent a purely degenerative process. He found the tissue bounding the cavity always avascular. In numerous instances Jones noted that the wall of the hygroms had yascular processes propercing into the cavity. He believes that fluids from these capillaines will reach the early of the Cavity.

Trauma both acute and long continued plays an important part in the causation of cystic hygromata. The rôle of infection v doubtful

Jones concludes that the conditions at work in the development of cystic by geomata must be similar to those mothed in the development of burse in the embryo and young child and that bizarre types of burse. are probably accounted for by absence of the environmental conditions necessary for the development of normal burses.

Bick E M The Surgical Pathology of Synovial tissue J Bone & Joint Surg 1930 xu 23

Following a description of the normal synovial tissue the author describes the condition of the snowal tissue in tuberculous non specific acute subacute chronic acute purulent and synbilities synowities ostochondritus dissecans synoviomata and rheumatic fever synovities.

II IMALI COUNTEL 11 D

Veneziasi E Primary Pathological Processes of the Joint Capsule (Process morbos primitivi della capsula articolare) Chie d organi di movimenta 19 g 311 266

The first case reported was one of cyst of the men sexus of the right knee of a man thirty seven pears of age. The patient stated that about ten years pre vousty, be had struck the knee against the ground in a fall. For several days after the injury it was sollen but there was no limitation of movement Several weeks fatter a swelling appeared on the external side of the yord line and increased in use for the patient complained of pain and weakness of the leg. There was no locking of the soint.

Operation revealed on the external side of the memscue a tumor the size of a nut which was made up of cuts of various sizes with connective tissue walls rich in cells and showing papillic. Tumors of this type are most common in young times to the type are most common in young times.

males. They are often attributed to trauma but the importance of trauma has been experient to the importance of trauma has been exagerated. The author belone that the tumor anaperated The author belone that the tumor can be a seen as not author belone that the tumor of pathological confidence in the case of which a unknown. They are not malignant as they more shown as a form of pathological and part articular theorem to the tumor tumo

The second case reported was one of capsular harmangeoms of the right lave of a boy three years of age. The family and personal harmone were negative. In September 1936 the struck, the results of the second personal harmone was a fall. After incision and the struck hace in a fall. After incision and the major receded and there were no more symptoms until the might of Val x 6 1927 when intense pain deseloped in the joint When the patient was seen by the author in Agril 1937 the new as in flexion to the author in Agril 1937 the new as in flexion to

about 165 degrees movements were very limited and the muscles were atrophic. Operation revealed a cavernous capsular hemangioma in the subsin ovial tissue of the anterior horder of the knee and in the subpatellar fat. Uneventful recovery resulted Histological examination showed that the tumnr was not caused by the trauma but was due in a congem tal anomaly in the arrangement of the vessels of the cansule AUDREY G MORGAN M D

Giuliani G The Action of the Tendons un the Development of the Centers of Ossification (L influenza dei tendini sullo sviluppo dei nuclei di os ificazione) Chir d organi di mo imenio 1929 X17 373

Giuliani reports experiments performed on rabbit in which the Achilles tendon on one side was sec tioned and the effect on the centers of ossincation was studied

The results showed that the action of the tendon has a marked effect on the growth of the epiphy scal center of the process of the calcaneum. The latter does not reach its full development unless the action of the muscle is continuously transmitted by the tendon Histological examination indicated that when the cartilage is not stimulated by the tendon it is not capable of fulfilling its biological task of ossification Koentgen examination showed progressive atrophy of the center and atrophy and rarefaction of the bone of the proximal end of the calcaneum

These findings indicate the importance of muscle action transmitted through the tendons in the con ditions which are called hope diseases of adoles All centers of ossification which are in con nection with strong muscles feel the action of the tendons and the whole skeleton requires the action of the muscles for its normal development
Armsey G Morgan M D

Nicotra A Calcification of the Nucleus Pulposus of the Intervertebral Disks (La calcibrazione del nucleo polposo dei dischi intervertebrali) Radiol med 1070 Xv1 077

Nicotra reports three cases of complete and one case of incomplete calcification of the nucleus pulpo sus of the intervertebral disks. The symptoms in such cases are always those of stritation of the spinal nerve roots and meninges. Nicotra attributes the condition to inflammation followed by the precipi tation of calcium salts in the gelatinous embryonic substance of the notochord which p rsists in the cen ter of the disks. He is of the opinion that in the majority of cases it stops in the stage of swelling and that it is often the cause of radicultis even when the roentgenogram does not show calcification. He be heves that the inflammation may have occurred long before the development of the nerve root and me ningeal signs and the rountgen examination and s probably due most often to localization of the in fluenza virus in the disks. He suggests the name 'infectious chondroneuritis for the condition

ALDREY G MORGAN M D

Peirson E L Jr Osteochondritts of the Symphy sis Publs Surg Gynec & Obst 1929 zhr 831 Peirson reports in detail four cases of osteochon drites of the samphasis pubes. In three cases the condition followed a urological lesion and in one ca e an operation for inguinal hernia. Operation was per

formed for the osteochrondritis in all. Three of the patients recovered and one died of septicemia The most con tant symptom of osteochrondutis of the symphysis pubis is pain in the region of the pubis which radiates down the legs and is aggravated by

motion On palpation a localized point of tender ness to di covered over the symphysis. The roent genogram shows marked proliferation of the bone Beer has reported twelve cases of periosteitis and ostertis of the symphysis pubis in which the condition followed suprapuble existotomy. He attributed the inflammation to injury of the periosteum or pres

sure produced by a suprapulic drainage tube. All of Beer's patients recovered without operation RUDOLPH S REICH VI D

Polacco E Free Bodies in the flip Joint (Cor tributo allo studio dei corps mobili dell'anca' ir b etal de chir to o Exit 6,1

Polacco reports three cases of free bodies in the hip joint. The patients were women that hie forty two and twenty three years of age The symp toms were those of arthritis deformans. The free bodies were very evidently secondary to arthritis of the hip and there seemed to be a certain relation between the seventy of the arthritis and the n m ber of free bodies In one of the ca e the art nis was gonorrhoral but in the others the cause nas un known In all three the macroscopic and microscopic character of the joint bod es wa the same

The free bodies consisted of spongs bone showing a delicate trabeculation containing fatts marrow which was surrounded by a thin external shell of compact bone. The external shell was surrounded hy a periosteal membrane from which vessels passed into the external faver of bone Evidently such free bodies and the conditions necessary for their devel opment in the sunovial fluid. The difference in the vitably and growth of free bodies formed in chincal cases and those produced experimentally is due to the fact that in the chinical cases the free bodies are detached gradually rather than suddenly

The free bodies vary in size from that of a milet seed to that of an orange Thes mas have a smooth a rough or a nodular surface. They adapt them selves in shape to the space available and to the mechanical function of the part of the joint in which they he Sometimes they are solitary and sometimes they are formed in large numbers. They vary in weight from a few centigrams up to 20 gm or more They occur most frequently in the knee and next most frequently to the elbow and shoulder Thes are rarely found in the hip Although all of the author's patients were women free joint bodies are more common in men than in women

APDREY G MORGEN M D

Lombard P The Remote Sequelæ After Forty Fire Years of a Purulent Arthritts of the Ilip Occurring in Early Childhood (Les conséquences clougates après 45 ans d'une arthrite purulente de la hanche sun enue dans la premère enfance) Rev 4 orlibo), 1000 xxxx1 420

In the case reported the arthritis began during an attack of typhoid fever when the patient was three vars old. After its acute inflammatory onset, the articular isson continued to develop almost un noticed for years. Softening of the bone which resulted in coar varia discovered eighteen years later was followed by, absorption. The femoral head disappeared and the neck which was gradually reduced in size ascended into the enlarged acetabulum and indeed to become luxated into the latic fossa. What was doubtless at first a chemical process started by a meteorial process started by a meteorial complicated by disturbances of a mechanical nature.

Pacer

Bérard Deep Connective Tissue Tumors of the Thigh (A propos des tumeurs conjonctives pro fondes de la euisse) Lyon chir 1929 xxvi 629

Berard reports two cases of deep connective tassue umons of the thigh. The first was that of a woman tastly ax pears of age who about five months pre viously hexan to have slight pain above and to the anear side of the left kine. Two months later pro gressive swelling of the region began. The general condition was not affected. At operation a connective tissue tumor of the fibrolipoma type was extir pated. Uneventful recovery followed.

While instological examination of the specimen revealed no atypical cells the lower third of the capsule of the tumor was condensed and volet colored and was continuous with the periosteum of the lenur. As a matter of precaution because of this suspicious area deep roentgen ray treatment is being seen.

The second case was that of a woman of forty clars whose left thigh had been increasing in such or two years. Incuson showed a lobulated lipomatous mass with lobe varying from the size of a prune to that of two fixes which extended into all the interests of the muscles. The femoral vein was throm based and both the artery and the vein were compressed by the tumor. The noplasm was estripated together with about 30 cm of the femoral vessels. Use, entful receive; followed:

The findings of the complete histological examination and the tumor will be published later. The author believes that the neoplasm was probably a tumor of the sheath of the femoral vessels. Deep roentgen treatment will be given as soon as the wound has healed.

In the discussion of this report Tixier said that he had never seen a connective tissue tumor of the sheaths of the femoral vessels invade the muscles and he would not be surprised if an early recurrence de veloped in Bérard a second case

AUDREY G MORGAN M D

Cilroy E. Pes Cavus A Clinical Study with Special Reference to its Etiology Edinburgh W. J. 19 9 88811 740

Gilroy analyzes (48) cases of pes cavus and classi thes them ettologically. He states that in cases of obscure causation the condition is probably of congential origin. A congenital origin is not disproved by late onset of the symptoms.

by late onset of the symptoms

The age at hach symptoms develop is determined largely by sex. Females require treatment earlier than males, but this difference may be due to the differences in the shoes worn by males and females. However, there is no evidence that shoes can produce one carries in a normal foot.

Hereditary cases of pes cavus appear to be limited to one sex in the family line. The transmission is

Fevers and other acute illnesses do not produce a

Pohomy elits is responsible for the majority of ac

formit with a high incidence of associated defects with the exception of the cases due to polio myelitis and those in which the condition develops during adolescence pes cavas occurs with about equal frequency in the two sexes. In the polio myelitis group the ratio of males to females in the cases reviewed was 5 a and in the adolescent group.

also the incidence in males was high

The distribution of the deformity in congenital
cases is comparable to that of club foot. The adoles

cent group is similar in all respects

In the cases reviewed by the author the ratio of unlateral to bilateral cases due to poliomyelitis was 6 of 3. In the fever group the number of unlateral and bilateral cases was about equal. Of three hereditary cases two were bilateral. The most common additional deformity is equi.

nus This is a criterion of severity not chronicity and is characteristic of a paralytic origin. It e ther precedes cavus or is coincident with it

Triuma is an uncommon cause of the deformity

Fortin II J The Care of the Feet in Chronic Ar thritis J Lances 1930 i 36

Inability to walk may be attended by definite ps chopathological changes. Therefore the care of the feet and the prevention of foot deformities are of special importance.

The results of infection or abnormal trauma which are most commonly associated with chronic arthritis of the feet are (1) pronation defects (2) depression of the longitudinal arches (3) programly ingol and right fiet and toes (4) depression of the anterior transverse metatarisal arches (5) bomons and hallux valgus and (6) spurs and from the tendon of values or the calcaneus. Here conditions may give me to considerable mad may definitely agree as the arthritis is and may definitely agreement to the architic spurs and may definitely agreement to the architic spurs and may definitely agreement the arthritis is and may definitely agreement the arthritis is a serious architic spurs and the serious considerable may be a serious associations are serious associations are serious associations are serious associations.

The treatment of flat foot includes primarily reduction of the weight to as near normal as possible.

proper support for the feet such as is afforded by cor rect shoes with the specific alterations indicated and strapping of the foot if necessary during the period of rather reute pun. The straps should be removed as soon as possible As a rule shoes give sufficient support

Contrast baths afford relief and should be used in addition to periodical professional and continuous home physiotherapy and exercises for correction of the broken arches. The simple methods of apply ing heat that the nationt may employ in his home in clude the use of a baking machine a cradle of car bon lights. He should be carefully instructed in the use of this apparatus by a physician or physical therapist. Heat may be applied for approximately twenty minutes once or twice a day and may be fol lowed by certain specific exercises for the correction of the pronation and depression. It is difficult for the patient to apply massage himself as a rule this should be done only by trained persons

With the physical therapy the author gives to phoid vaccine intravenously every four days. After the injection of the vaccine there is usually a reaction in which the temperature may rearb tog degrees F for one or two hours but the pains in the joints are usu ally considerably relieved and the range of motion is

increased

When in hallux valeus with burson the burson does not cause pain a shoe that gives the antenor part of the foot sufficient room should be provided If the pain is severe surgical intervention such as the Mayo operation for busion in which the head of the first metatareal is removed may be necessary Imputation of the great toe or amputation for marked deformity of small toes may be required

For spurs conservative treatment is advisable I albative measures are often successful until the late inactive stage when even large bony spurs may be come painless. The heels of the shoes may be replaced by soft sponge rubber pads or felt pads with hole directly under the spurs may be inserted inside the beels of the shoes Felt pads placed in the shoes on either side of the painful areas may increase the nationt's comfort. The local application of unguen tum by drargy ri as a countentritant may supplement heat and massage Surgical intervention is seldom advocated as spurs are prone to recur after their removal and even if they do not recur the pain per sists. However operation is justified if the spurs are very long and produce mechanical disturbances

In cases of metatarsalgia in which it is impossible to straighten the toes the heads of the metatar als may be removed to produce shortening After hort ening has taken place the toes can be straightened Another measure for straightening the toes is traps plantation of the long extensor tendons of the toes to an attachment just behind the metatarsal bead capsulatoms of the metatarsophalangeal joints and the induction of ankylosis of the first interphalangeal

When rigid flat foot does not can e pum and the patient is able to carry on his u ual labor interfer

ence should not be attempted. If it causes pain con servative playsical therapy should be employed first especially if any pas ive supination remains. If mobility is not increased by a prolonged course of heat massage and exercises manipulation under anxithesta followed by the application of casts is neces sary Thereafter the patient should be provided with correct shoes to hold the feet in a natural posi If manipulation fails surgical intervention may be necessary. I wedge of bone may be removed from the inner side of the foot in an attempt to re form the normal longitudinal arch

The discomfort of hallux rigidus may be materially relieved by the wearing of a shoe with a rigid sole. If this is not succes ful arthroplasty may be performed

In conclusion the author says that the common deformities associated with chronic arthritis of the feet can often be prevented and their prevention or early care should be one of the physician's re-poquibilit es in the medical phase rather than in the life of orthopedic phase of the disease

SURGERY OF THE BONES JOINTS MUSCLES TENDONS ETC

The Results at the End of Twenty Lears Gentil F of the Use of a Pedicled Graft of the Fibula After Resection of the Tibia for Sarcoma (Resultate au bout de 20 ans d'une greffe pedicules du péroné après résection du tibia pour sarrome) Lyon chir raid Ext. 465

In August 1906 the author resected o em of a tibia in which a central sarcoma had developed in serted into the detect a piece of hone obtained from the abula of the same side and united the graft to the maileolus of the tibia bi periosteum incompletely detached from the bone so that the graft was still supplied by its nutrient artery. Five months after the operation the patient was able to be up and to make normal movements of the foot and toes Roentgenograms made in roz, theats years later showed that the bone was a true graft and had not

been absorbed or replaced by new bone This case demonstrates that encapsulated sar coma can be cured by free resection of bone and transplantation. The only complication was the formation of an abscess in the malleolus ten years and two months after the operation which neces : tated the extraction of a piece of uture wife

MORES G MERCES MD

FRACTURES AND DISLOCATIONS

Isolated Fracture of the Coracuid Moriconi L I rocess (Frattura polata del apon i coracoi le) freb stal de hir 19 9 xxii 393

Moricom reports an isolated fracture of the left coracoid process in a man twenty nine years old who was struck on the left shoulder by a stone weighing several Lilograms which fell from a height of about 5 meters He states that while in laxation of the shoulder or fracture of the gleno d fossa or the head of the humerus all movements of the shoulder are painful in fracture of the coracoid process alone there is interference only with movement backward and forward raising of the arm, and flexion of the forearm on the arm that is movements brought about wholly or partially by the small muscles at tached to the coracoid process. The diagnosis can be confirmed by roentgen examination

Fracture of the coracoid process alone is rare and is sometimes mistaken for contusion. The mechanism of the fracture varies in different cases. The fracture may be caused by traction downward act ing on the spane of the scapula. The author produced isolated coracoid fractures in cadavers by this

mechanism

Fracture of the coracoid process should be reduced as accurately as possible. After the reduction a rotnigenogram should be made to see that the fragments are in good position since with poor reduc tion the function of the muscles attached to the proc ess may be injured. In the case reported the author put on an immobilizing east with the arm and shoul der in abduction and external rotation and the lore arm flexed on the arm AUDREY G MORGAN M D

Brenkmann E and Miloyewitch M Four Cases in Which Ankylosing Grafting Was Done for Fracture of the Spine without Immediate Symptoms (Quatre cas de greffe ankylosante pour fractures de la colonne vertébrale sans symptoms nerveux immédiats) Res d'orthog 19 9 1711 43,

The authors report four cases of fracture of the spine in which they did early grafting A graft taken from the internal surface of the tibia was wedged be tween the posterior arches and the denuded spinous processes It was buried deeply to prevent the for

mation of a painful scar

In all of the cases the immediate results were excellent and in the first three the end results were also very satisfactory. In the fourth, the operation was performed too recently for conclusions as to the end result. The time lost by the patient from work was reduced to the minimum being usually only four months There seems to be no risk of remote com plications On their discharge from the hospital the patients were advised to wear an elastic corset for six neeks. This served for the dorsolumbar region. For the cervical region a Mineria plaster cast was used

Colp R and Findlay R T Fractures of the Pel vis Surg Gree & Obst 1929 xive 84

The authors report in detail thirty five cases of fracture of the pelvis All but three of the patients were males. The ages varied from six to sixty eight years. In hiteen cases the fracture involved the thum in twents four cases the pubis in four cases the i chium and in one case the junction of the ischum pubis and acetabulum. In four cases it in vaded the right acetabular cavity and in two cases the left neglabular cavity. In four cases the sum physis pubis was separated and in five cases there

was a dislocation or separation of the sacro iliac joints. In 48 per cent of the cases there were other fractures and in many cases there were other com plications Six of the patients died

The most important symptom of fracture of the pelvis is pain. Shock is present in most cases and was omte marked in eighteen of those reported

Of the complications injuries to the bladder are the most common and most serious. Hæmaturia was present in three of the cases reported and extravasa. tion occurred in two

The authors believe that little if anything can be done in the way of intervention to relieve deformities and displacements. They recommend complete rest in hed. In their own cases the patient is kept flat on his back for an average of thirty days. At the end of that time he is first moved in bed then permitted to sit in a wheel chair and finally allowed to walk. The average length of time following the injury before walking is allowed is thirty eight days Complica tions requiring surgical intervention should be dealt with ammediately RUPOLPH S REICH M D

Noland L and Conwell II E Acute Fractures of the Pelvis Treatment and Results In 125 Cases J 1m 1/ 4ss 1930 xciv 174

The 125 cases of pelvic fracture reviewed by the authors were seen in the period from January 1920 to July 1928 The ages of the patients ranged from nineteen to sixty two years and averaged thirty seven and a half years. The average stay in the hos pital was sixty five days and the longest stay one hundred and therty three days \inety eight of the patients were males. Seventy one of the fractures were caused by industrial accidents and 54 by acci dents of civil life

The pelvic fractures in women seen during the three years from 19 0 to 19 3 constituted only 10 per cent of the total number of such fractures caused by accidents of civil life whereas those seen during the five years from 19 3 to 1928 constituted almost 50 per cent of such fractures Seventy five per cent of the pelvic fractures in women were caused by automobile accidents

There were 20 deaths in the series a mortality of 16 per cent Of the 14 patients who died within twenty four hours after their admission to the hos rutal all had severe associated injuries which were regarded as necessarily fatal

Of a patients who sustained an injury of the pero neal nerve 2 recovered entirely but 1 had a perma nent disability necessitating further treatment for relief

In a number of cases of fracture of the posterior ring and in the cases of Malgaigne fractures there was marked cedema of the extremities which per sisted over a period of several months and in some instances was disabling. In 2 cases marked ordema of the thighs was as-ociated with relatively minor fractures of the thum near the sacro mac joint Such complications plainly the result of severe injury to the deep blood vessels and neighboring soft struc

tures are sufficient to cause hesitancy in giving an

early prognosis in any type of pelvic fracture Good anatomical position was obtained in only about 60 per cent of the cases but excellent functional results were common in cases without good

anatoguical position
Open reduction for the correction of dispfacement
of bony fragments was done in only 2 cases and in
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authors opinion what appears to be poor position of
the fragments is by no means always a constant

cause of persistent pain and disability.

The detailed description of the treatment includes a description of Conwell's overhead peivic frame device and his method of sacro-thac reduction.

Hey Groves E. W. The Treatment of the Fractured Neck of the Femur with Especial Regard to the

When J Bone Joint Surg 1930 In a Whitman R Remarks Introductory to a Demon stration of the Abduction Treatment of Frac ture of the Neck of the Femur J Bone J Ini Surg. 1930 IN 11

Hey Groves states that in reent cases of fracture of the femur of the extracapoular type the best of the femur of the extracapoular type the states are obtained by the u e of skeletal traction or Whitman a plaster method. For fractures of the intracapoular type only two methods are worth of consideration—the Whitman procedure and the pergang operation. If the patient is voung and active Hey Groves chooses the pergang operation where the Groves chooses the pergang operation. He per forms this operation also in the case of weak effects patients if the latter do not show bown union within three months under treatment by the pls fer abduction method.

While it is impossible to obtain usion all case one usion is surjectal interestions an open open toon should be surjectal interestions an open open toon should be done whenever non union is found and the fracture examined. If the head and attribute cast is sufficient to the surject in the properties and the attribute case is well preserved the pegging operation should be performed. If conditions are not favorable the reconstructive operation should be done. The latter consists in removal of the head of the fermir into consists in removal of the head of the fermir into the activation of the next, of the fermir into the activation of the next, of the fermir into the activation of the next of the fermir into the activation of the next of the fermir into the activation of the fermir into the activation of the fermir of the activation of the activation of the activation of the activation of the fermir of the activation of the activat

of the femur

WHITMAN calls attention to the fact that the
abduction method takes advantage of the natural
mechanics of the hip joint to approximate and main

tain the fragments in their normal polition.

In 160 cases of intracapalar fracture treated to conventional methods which were reported by East entries in 1635 the mortality was nearly 18 per cert and good results were obtained in only 11, per cert and good results were obtained in only 11, per cert and good results were obtained in only 11, per cert and beautiful the per certain the per certain the contraction of the contracti

It has been demonstrated that the danger of the abduction treatment is almost negligible and that union of transversical fractures of the femu may be obtained by this treatment in the greater proportion of the case.

of the cases

The long plaster spica is most comfortable and
most efficient when it is properly applied. As it per
mits change of posture it has extended the applies
tion of the abduction method to the treatment of
patients as he are infirm and aged.

FIVE J BERLIET ER MD

SURGERY OF THE BLOOD AND LYMPH SYSTEMS

BLOOD VESSELS

Greenough, J Operations on the Innominate
Artery Report of a Successful Ligation brek
Surg 1929 xxx 1484

The author reports a successful ligation of the informante, carotid and subclauma rateries and abstracts the reports of innety one operations on the informate artery collected from the literature 75 per cent of which were ligations. The total montal ity of the ligations reviewed was 56 per cent, but the mattality of the last twenty the was 16 per cent.

Good exposure should be obtained by hone resection. The mnominate artery should be ligated with strong material applied with a force between 3 and to lb. A stay knot should be used and the artery severed. If uninfected the wound should be closed authorit desirable.

If the operation is done for aneurism distal as well as proximal ligation should be done and the sac

extrepated or destroyed

It is preferable to ligate the subclavian artery rather than the carotid Ligation of the right in nominate vein should benefit the circulation in the brain and the upper extremity

The operation is justifiable and should be done early

I S PLATT M D

Leibovici R. Arteriography in Gangrene of the Lower Limbs (Laitenographie dans les gangrènes des membres inferieurs). J. de chir. 1929, 1881, 293

Two kinds of substances have been injected into the artenes to render them opaque-lipsodol and aqueous solutions of opaque salts Lipiodol can be used in only small amounts as it behaves in the vessels as a true foreign body. It travels rapidly when injected into the common femoral artery it teaches the foot in a few seconds. In the plantar arteries it may remain visible for as long as five minutes Harvier and Lemaire have shown that it does not pass through the capillaries and is not ah so bed in the capillaries it is broken up into ex tremely small drops which are fixed by the tissues and are o small as to be invisible. A solution of sodium iodide on the other hand mingles with the blood and diffuses over the entire circulation of the extremit, so that a roentgenogram made after its in jection gives a picture of the entire arterial system that is permeable. Sodium iodide solution disappears much more rapidly than lipiodol if the circulation is free the arteries remain visible for only a few seconds

The speed of the injection is important If x or 2 cm of lipiodol are used the oil and the syringe should be warmed slightly in order that the injection may be completed in a few seconds Harvier who

uses doses of from to to 12 c cm injects more slowly at the rate of a c.cm per minute. A solution of sodium jodide must be injected rapidly as a neak solution gives as good pictures as a strong solution if the injection is sufficiently rapid. Attempts have been made to obtain longer visibility by blocking the currelation but because of the risk of damage to the endotheloum from long contact with the solution this as not advisable. Concentrated solutions of sodium lodide are not tolerated perfectly by the endothelium They cometimes cause an extremely painful vaso constructor spasm. They may also aggravate the obliterating arteritis and give rise to general in toxication Limodol may aggravate the ischæmia by obstructing the arterioles and thereby stimulate the gangranous process Sicard who is an advocate of limedel recognizes this possibility and advises limit and the amount intected to 1 c cm whenever possi ble On the whole lipsodol appears less dangerous than sodium todide but it gives a less accurate nic

THE The localization of the arterial obliteration is usually easy in the femoral or popliteal artery. The opaque substance is arrested at the obstruction House, an arteritis may be responsible for a vaca constructor spasm which obliterates the artery completely. In the arteries of the leg the information given by arteriography may be rendered erroneous by several factors. The lipiodol may become lodged in the tibioperoneal trunk so that not a drop enters the anterior tihial or if a little enters the anterior tibial small onacities graduated in size and at a distance from one another may appear. In the nostenor arteries it is no easier to affirm obliteration since not enough lipsodol is injected as a rule to render all of the arteries of the leg visible. Even when sodium todide is used it is hazardous to affirm an obliters tion on the evidence of a filling defect. In the foot hosodol cannot be relied upon to fill the arteries Sodium todide solution is more dependable because of its homogeneous diffusion

A knowledge of the state of carculatory sufficiency at the level of a proposed amputation is it state to with a state here of a proposed amputation is it state in the interest of the state of a state of the state

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Hey Groves E W. The Treatment of the Fractured

Results J Bone & Joint Surg. 1030 m. t Whitman R Remarks Introductory to a Demon stration of the Abduction Treatment of Frac ture of the Neck of the Fernur J Bone & Joint Jurg, 1930 m. 11

If y Groves states that in recent cases of frature of the femure of the extract pular type the best results are obtained by the use of skeletal traction or Whitman's plaster method. For fractures of the intracaptular type only two methods are worth of consideration—the Whitman perceduar and the perging operation. If the patient is 500mg and active Her. Groves choose the perging operation due to the first operation which is observed in the performe this operation of the performed with the performance of the performance of

While it is impossible to obtain union in all cased non union by surgical intervention an open open too should be done whenever non union is found and the fracture examined. If the head and attribute a tracture cattering is swell preserved the pergung operation should be performed. If conditions are not favorable the econstructive operation should be done. The latter consists in removal of the head of the femur into the actabulum and re attachment of the greater tochaster union and re attachment of the greater tochaster and capsule farther out and downward on the shaft

of the femist

WHITMAN calls attention to the fact that the
abduction method take advantage of the natural
mechanics of the hip joint to approximate and main

can the fragments in their pormal position.

In 60 cases of intracapablar fracture treated he conventional methods which were reported by Katt montain in 1935 the mortality was nearly if per cert and good results were obtained in only 11 g per cert and good results were obtained in only 11 g per cert whereas in 170 cases of the stane type treated whereas in 170 cases of the stane type treated in 180 g by the mortality was 6 per cent and bon union was obtained in 67 c per cent.

It has been demonstrated that the danger of the abduction treatment is almost negligible and that union of transcervical fractures of the femur may be obtained by this treatment in the greater proportion

of the cases

The long plaster spice is most comfortable and
most efficient when it is properly applied. As it per
mits change of posture it has extended the applica
tion of the abduction method to the treatment of
patient who are infirm and aged.

ELVEY J BEREMEISER MID

SURGICAL TECHNIQUE

OPERATIVE SURGERY AND TECHNIQUE POSTOPERATIVE TREATMENT

Ingelrans P and Minne J The Syndrome of Pallor and Hyperthermia In Infants After Operation (Contribution à létude du sundrome paleur hyperthermie chez les nournssons opérés) Prette med Lar 1020 23XVII 1850

The authors report two cases of pallor and hypertherma in male infants following operation for strangulated hernia. One of the infants was a ver old and the other two and a half months old in both cases autops; revealed intense compestion of the brain accompanied by external and internal hydrocephality and no other investal lesion.

PACE

Nuller G P Overholt R H and Pendergrass
E P Postoperative Pulmonary Hypoventi

lation fred Surg 1929 xix 1322 The authors were prompted to make this clinical study by (1) the frequency of positive reports from the roentgenologist in the cases of patients examined postoperatively whose subsequent course indicated the absence of pulmonary complications (2) the confusion in the use of such terms as postoperative Dneumonia bronchonneumonia lobular ate ectasis massive atelectasis hing teaction and infarct in descriptions of postoperative pul monary complications (3) the marked reduction in the vital capacity following operations on the upper part of the abdomen which was reported by

Churchill and McNeil and by Powers (4) the limitation of diaphragmatic function reported by Suse and its relation to the reduction in the vital capicity and (5) the presence of pre-existing pull many pathological change and its effect on diaphragmatic function

The investigations were made in them the tests in which an operation on the upper part of the abdomen was to be performed. The cases were not selected as regards operature risk or the patients americal appearance but none of the patients had a deformity of the chest gross pathological changes and the control of the chest gross pathological changes much made to the control of the chest gross pathological changes much made to the control of the chest gross pathological changes and after operation care was taken that and the control than the or three patients were under observation at the same time.

Dail notes were kept regarding pulmonars symptoms and physical signs. Mer he operation the examinations of the chest were made as thor once the examinations of the chest were made as thorough the condition of the patient permitted it was possible in all cases to examine the bases posteriorly by carefully turning the patient first one sade and then on the other Measurements of

the circumference and expansion of the chest were made before operation and at intervals of two days after the operation. The tip of the xiphoid process and the third interspace in the midelavicular line to the control of the control of the processed of the control of the chest were the control of the control of the chest were the control of the chest were control of the chest were the control of the chest were control of the chest were the control of the chest were control of the chest were the chest were control of the chest were control of the chest were the chest were control of the chest were control of the chest were the chest were control of the chest were control of the chest were control of the chest were the chest were chest were control of the chest were chest were control of the chest were chest which can be control of the chest were chest were chest were chest were chest were chest which can be control of the chest were chest

Determinations were made also of the vital capacity before and at intervals after the operation. The ordinary clinical spirometer was used. The vital capacity recorded was the highest of three

vital (3)

The patients were studied fluoroscopically in the recumbent and crect positions by the central ray method. The duphragmatic movements were recorded during the quiet (tidal) breathing and during the maximal respiratory phases (deep breathing) The positions of the domes of the diaphragm were marked directly on the fluoroscopic screen with a way nencil and these tracings then transferred to cards for a permanent record. After the operation the various methods of roentgenoscopy were tried but the most work able plan and the one which caused least discomfort to the patients consisted in lifting them from the bed to the adjustable fluoroscopic table. Most of the patients suffered practically no pain and none of them at the time of the exami nation or later showed evidences of injury from this procedure

Pre operative roentgenograms were made as a After the first four cases were studied it became obvious that the pre operative roentgenogram should be taken with the nations in hed in order that it might be compared with the post operative roentgenograms In half of the cases studied roentgenograms were made during the expiratory phase as well as during the inspiratory phase In some of the cases in which this study was not made the day before the operation roentgenograms made when the patient returned three months later for follow up examination were used for comparison Great care was taken by the technicians to make all exposures with the patient in as nearly the same sems Fouler position in bed Lateral roentgenograms were made in more than half of the tudies The following conclusions are drawn

A definite appearance characterized by prominence of the basal trunks haziness of the lung fields and elevation of the done of the data phragm which is found in roentigenograms after operations on the upper part of the addomen is due to hypocentiation of the lung and should be regarded as normal.

2 This roentgenographic appearance is similar to that in cases in which the condition has been diagnosed previously as a pulmonary complication broachopneumonia postoperative pneumonia or pathological lobular attelectasis.

The author believes that errors in amputations for gangrene are due largely to the fact that the condition of the larger arterial trunks is regarded as of more importance than the condition of the collateral circulation. He emphysizes that slow obliteration of the large trunks may take place in the absence of thonlie disturbances.

Owre A The Clinic and Etiology of Postoperative Thrombosis 1eta chirarg Scand 1929 In 12

Inrombous gives ruse to pronounced slight or no local sumptoms but is often attended by general symptoms. It is most frequent after hypoteness According to DeQuervain 9, per cent of all destroyed from thrombous occur after the fortesth year of age. Here is good reason to believe thy action operative thrombous develops on the first day or one of the first days after operation

Most of the commonly accepted theories as to the cause can be refuted. Conditions of the blood flow alone are not sufficient to explain the phe nomenon and changes in the intima of the essels have little effect in producing the condition. Changes

in the blood itself however are more significant The author a studies as to the cause of postopera tive thrombo is were based on the hypothe is that operations may produce changes in the blood influencing the agglutinability of the platelets and the coagulability of the blood fits investigations included determinations of the concentration of the blood the rate of sedimentation of the blood corpuscles the content of carbon dioxide in the serum the calcium content of the plasma and serum and the rate of coagulation From hi findings in twenty four cases he concludes that concentration of the blood may play a part in the causation of thrombo is although this has not been proved He found that the rate of sedimentation is directly dependent on the extent of the operation and on in fection. The carbon dioxide of the blood is lowest on the day of or day after operation the decrease being probably the result of the acidosis of hunger A hitherto unknown variation in the calcium content of the plasma and a sometimes very marked differ

ence between the amount of plasma and erum calcium in the same patient following operation were demonstrated. This change mantess stell partly by an increase in the calcium content of the plasma and partly by an increased difference between the plasma and serum calcium. The

results regarding congulation were not in agreement. Theories attributing postoperative thromboss to a circulatory disturbance infection or afteration in the walls of the ves els are reluted by the fact that the condition does not occur in the potal vein.

The author conclude that thromboss is first.

and that when it occurs after Japarotomy it mibe due to the alteration, in the calcum content of the Blood brought on by acidos. The rat that it is decadedly more frequent after the age of forty yers may be accounted for by disturbances of all cum metabolism. The localization of throughous in the veins of the pelvius is probably to be explained by the slower rate of flow in these vessels.

determined by alterations in the calcium metabolism

VERNE G BURDEN VID

BLOOD TRANSFUSION

Bialock A The Oxygen Content of the Blood in Patients with Varicose Veins inch Surg 19 9 112 °98

Blalock has found that the oxygen content of the blood from the femoral veins of patients with varice oxygens, bupher than normal. In patients with unlateral varices veins of the lower extremal the venous oxygen content is bigher on the diseased side and the difference is accordanted when ulters too sype can.

In studies of the effect of change in posture it was found that whereas in rormal subject the consecution falls rapidly when the standing posture it assumed and rues in the recumbent postures in cases of variosities changes in posture clusteration in the versus or spore. Blaicel suggests that the total flow of blood through a leg with various conservants in increased various X conservants in conservants in circums X conservants.

include in the last class the patient who must under go an operation on the air passages which requires the sitting posture during recovery. He believes that avertin is contra indicated for operations which are likely to cause a rapid fall in the blood pressure, and for cause of sever tripal deads.

Young reports that he has employed avertin in ordinary anaesthetics in the ease and comfort of the induction the freedom from postoperative somiting and the freedom from the common postoperative respiratory complications. For cases of operation on the nelvic floor he advises withdrawal of the solution from the lower box el before the operation is begun The obstruction to the air passages by the relaxation of the law and the topgue are easily overcome by the introduction of the artificial air Respiratory troubles have been fewer since he has restricted the pre operative dose of mor phine to 1/2 gr In several cases he has noted a marked fall in the blood pressure-in one case 50 Doints In his series of 144 cases there were 2 deaths but neither of them could be attributed to the avertin

Lewis states that he has used acettin in 26 cases. He has noted that the patients on whom it had the most effect were those he would classify as 'sub thy rouf and those on whom it had the least effect were those who might be called hyperthyroid. The hyperthyroid patients recovered from the effects of acetin more quickly than the others. There has been no unpleasant incident following the use of acetin. Lewis regards it of value par

tendarly in cases of goiter

Dr. CAA, states that the chief disadvantage of
the use of avertin alone for the induction of anxithesa is the length of time it must be given before
operation. In 25 laparotomies he was forced to supplement it with nitrous outde and oxygen or introus
order oxygen, and ether. The more nervous the
patient the more avertin he used. For Bronchoscopy.

MANNEL says that while his experience with aver tin has not been very extensive he believes that when it is used alone it does not give sufficient re laxation for operation, and that while it is of value as a prehumary narcotic it should not be employed routinely Fun C Rostrange M D

- 3 The lung fields on the roentgenogram made at the height of the expiratory phase before oper ation are similar to those found in roentgenograms made after operation during full inspiration. Both show evidences of decreased thoracic volume and dynunished ageration.
- 4 Transent positive physical signs in the chest are found frequently after operation on the upper part of the abdomen A hasty diagnoss of pul monary complication should not be made from the physical signs alone. Clinical signs and symptoms are of greater value and are usually present when a pulmonary complication complication exist.

5 The marked reduction found in the vital capacity after operations on the upper part of the abdomen are explained by changes in the chest expansion the position and movement of the dia

phragm and the volume of the lung

6 The varying degrees of partial atelectasis which occur after operations on the upper part of the abdomen are due primarily to elevation of the diaphragm and restriction of its movements

Dute C Robitshey M D

ANÆSTHESIA

Roster II, and Raman L. P. Spinal Anasthesia for the ifeed Nock and Thorax fix Refation to Respiratory Poralysis. Surg. Gines. & Ober. 19. 9, this fir.

In order to obtain anasthesia of the whole bods in spinal anasthesia the local anasthetic introduced into the spinal canal is caused to diffuse to the Predulla and brain stem. The authors carned our investigations to determine the safety of the method paying particular attention to the effect of the anasthetic on the medulary respiratory center.

In experiments on frogs guinea pigs and a cat concentrated solutions of neocaine were applied directly to the exposed medulla and cervical cord Complete anasthesia resulted but no effect wa

produced on respiration

Further experiments indicated that the neocame causes an interruption of phy sulogized continuity of the ensory nerves with no interruption of conductivity; through the motor fabres. This property of selective affinity explains the phenomenon of surgreal annesthesia of the entire body without paraly-usof the respiratory of the property of the contract insue (Inpudd substance) with which they come rato contact and thereafter it matters not how the postuno of the patient is changed

The authors discuss also the blood pressure changes in spinal anarsthesia. They state that even when the blood pressure drops to zero it be not considered alarming and stimulation is not resorted to. The Trendelenburg position to prevent ecrebral anarmia strongly advised. Postoperative headarhe is treated satisfactonly by magnesium wighbar enemas.

The authors expenence in the induction of anysthesia of the head in a fairly large number of

cases has convinced them not only that spinal anaesthesia is safe but that it is universally applic able

Biomfield J Shipway Sir F Young J Levis I N and Others Discussion on Avertin An asthesia Proc Roy Soc Med Lond 19 9 xuu 90

Avertin is tra brom ethyl alcohol a white crys talline substance which dissolves with difficulty in water to 334 per cent The strength of the solution must be from 23/2 to 3 per cent and the dosage de termined according to the body weight Brow FIELD uses o r gm per kilogram of hod, neight The solution is run into the rectum slouds through a soft tube inserted about 4 in. In Blomfield's opinion it is important for the auxisthetist to be present during the procedure because person differ greatly in their reaction to avertio Fairly definite limits of dosage are stated but even within these limits there may be unusal occurrences. In the case of a young man in ordinary health who had an operation for the radical cure of inguinal hernia death resulted and at autons, no cause for it

could be determined in another as e death re sulted twelve hours after thyroidectom.

The induction of the anasthesia is generally pleasant There is no excitement or evidence of discomfort. The respiration becomes somewhat dis-

pressed The blood pres ure drops from to to 15 mm lig Often the corneal reflex is absent According to Blomfield its absence is unreliable. The bes test to determine whether or not more anasthetic >> required con ists in placing before the face s mask with a strong ether vapor for inhalation. If this vapor is inhaled quietly without holding of the breath the operation can be begun in about a fourth of Blomfield's ca es satisfactors anasthena was obtained with avertin alone. The loss of con scrousness u wally lasts for from two to four hours but is not of that deep variety which would make it dangerous to use avertin in cases in which there may be blood about the air passages Blomfield regards avertin as a very useful authtion to d gs but states that it should not be employed routinely in hospitals. It is most valuable because it gives a very pleasant induction of anæsthesia which is especially good for persons who have had trouble with other anæsthetics and it adds enormously to the safety of operations for exophthalmic goner and

operations on persons who are enabled STEPWALS and that his impress isons regarding aver tin are based on only a small auraber of cases. He believes that if a vertur is used with care and in the does recommended it is a safe and valuable agent for the induction of an anaschesia which is remarkably free from after effects. He believes it i undirected especially for vern nervous patients those whe has suffered much from other areas bet is patients with cardiac and pulmonary comparations with cardiac and pulmonary comparations where the patients with cardiac and pulmonary comparations the only in the proposition of these who must undergo protracted operations. He does not

White many claims are made, as to the ther are queue effects of infrared rars most of them are unsubstantiated. However, the perceptible effects of these rars are an analysis action and the relief of local angueral congestion. In cases of fatts department of the heart and cases of high blood pressure the application of these rars may be dan

The use of the luminous or visible rate is indicated to increase local circulation to relieve pain to lessen internal congestion, to raise body metabolism

and to overcome shock

In kayles appropriate chief problem in modern light therapy is the proper evaluation of the wide field of arradiation in the ultraviolet range effect of the ultraviolet ray is of two types (1) a direct local effect on the skin and (2) an indirect effect on the organism General irradiation has given fairly uniform beneficial results in the fol lowing conditions (r) rickets tetany and the minor degrees of calcium and phosphorus deficiency certain torms of malnutration and anomas (2) many form of surgical tuberculosis (3) certain forms of chronic pulmonary tuberculo is and (4) certain forms of general debility. The danger of its use is dependent upon overdosage or improper handling of the apparatus in the cases of persons with a normal response and upon untoward effects in the cases of per ons with hypersensitivity to

light and in the large group of conditions which are

In conclusion the author states that he is convinced of the benefit received from light therapy if its application is based on accurate diagnosis proper dosage and experience in judging beneficial and harmful effects

GERRIOE BEAND

Robinson C A Diathermy Treatment of Puer peral Septicemia and Pneumonia Proc Roy Soc Med Lond 1929 xm 179

Robinson reports thenty one cases of puerperal septicema treated by diathermy with recovery in all except three. He groups these cases according to the manner of the recession of the fever. The treatment was given by means of a vaginal active electrode and a belt dispersive specific heating of the infected operation being the report of the property of the property

In eight nine cross of pneumonia diatherms was followed by relict of the pain and a tendency toward rest and sleep. However while the treat ment was undoubtedly beneficial the author be leves it did not shorten the duration of the illness. The lack, of definite results in pneumonia he at tributes to the fact that there is no method of heating the infected organ with accuracy as may be done in the treatment of puerperal septicemia when one electrode is placed within the tirtle formed by the other. Brako

PHYSICOCHEMICAL METHODS IN SURGERY

ROENTGENOLOGY

Bigler J A The Interpretation of Roentgeno grams of the Chest in Children Based on Observations at Nectopsy 1 The Illiar Shadows and Linear Varkings tm J Dis Child 19 9 vvviii 9,8

i he lungs of 171 children coming to autopes were studied to determine what pathological changes were present to account for the shadows seen in the roentgenograms of the chest. The hilar shadows and the linear markings were found to be due for the most part to the blood in the blood vessels and not to the bronch: The rounded shadows of even density occurring in the inner third of the lung fields as well as those found along the linear markings were found to have been east by blood vessels running parallel with the axial ray Such shadows changed position or de appeared when the target was centered over a slightly different point of the chest. They were in marked contrast to the shadows of calcified lymph nodes which were always present in the same relative location on successive exposures

On dissection of the lungs with the films before the extunuter it was found that normal lumph modes do not cast shadows. If perplastic nodes, whether casted or inflammators and whether in the historia such if the one constitution of not contain calcium. These will not such that the containing the substitution of scarring which surrounds them eare created not the pulmonary fields from the medisation or the hijum or unless thes are rendered visible to contrast with the art bearing pulmonary paren.

chima

Fre uze and shape of the hilar shadow are in fluenced not only by active infection but all o by the remains of previous infections. This shadow may show wide variations in different reentgeno grams and vet be within normal limits for the person examined.

In conclusion the author states that because of the facts reviewed it is important to consider the chinical exidence and history in the interpretation of reoritgenograms of the chest William & Bully M D

RADIUM

Canti R G The Biological Effects of Radium Irradiation leis radiol 19 9 x 3 0

Cantt first reviews the earlier ob ervations on the histology of tumors irradiated with the gammi raws of rad um. The difficulty in interpretion, the results led Strangeways and his co-norders to study the effect of irradiation on tissue cultures. The author describes the cessation and recurrence of cell divi

sion discusses the hypothesis of the delayed lethal dose and cites an experiment demonstrating the effect of the beta rays on cress seeds

He then discusses the time intensity rules from the results of experiments on tissue cultures it appears that there is both a threshold of intensity and a threshold of time each of which make before a biological effect of irradiation can be plasted before a biological effect of irradiation can be obtained. A comparison of the time factors on ploved in these experiments and by radiologi its leads to a discussion of indirect action.

Selectivity of action of the gamma ras on cancer cells is illustrated by cuttings from citimatograph films of tissue cultures of normal and malignate (Jeasens rat sarroma) cells, and the electric motion of beta rays on bacillus col; in an agar culture of streptococy and bacillus col; in an agar culture of streptococy and bacillus col; in shown in a photograph. Reference is made to stimulation and ane-periment on tissue cultures, a described which showed in increase in cell division which might erroneously be considered the result of stimulation.

Finzi N S The Therapeutic Uses of Radium 49 pited Externally Acts radiol 19 9 x 332

The author reviews the history of the external use of radium sincer foot and records that he was probably the first to use a large quantity of radium as a distance (ton!). The method of applications are described together with their use in super foul diseases such as epithelmour rode of applications are described together with their use in super foul diseases such as epithelmour rode in technical deep diseases by external application is then d ser bed disease by external application is then d ser bed used to the control of th

MISCELLANEOUS

Hovacs R The Uses and Dangers of Light Ther apy Ued J & Rec 19 9 cvvv 531

The author includes in his discussion the electromagnetic waves of longer and horter length than those which come under the true definition of light by specifically stimulating the retina of the exto-give the sensation of light. He divides them into (1) infrared or thermal rays (1) luminous or viable rays and (1) ultraviolet or actume rays.

The saving length of rax generated by the sam and the man different sources of attitudal light make acturate dosage impossible. The author befores that a defaint termonoles, to not out to list had a sensital for the anodarie of the that and tunit a defaint termonoles, to not the list had so furnity to the source of the sensital for the anodarie of the that and tunit sensities the various hand of additional energy and a method of separating there will light therapy rest on a definite sensitin basis.

fatty substances (camphor paraffin), (2) traumatic fat granulomata (3) fat granulomata in the vicinity of inflammatory foci due to the destruction of adi pose tissue by extension of the inflammatory process sud (4) spontaneou fat granulomata resulting from spontaneous localized necrosis of fatty tissue from

ischamia or the influence of toxins on the fat cells In nine cases of spontaneous fat granuloma some of them of from six to eight years' duration Abrikos soil observed four different types of end result (1) transformation into a conglomerate tubercle like structure ultimately changing into fibrous tissue (many 50-called cutaneous tuberculoids particularly the sarcoid of Darnier and the crythema induratum of Bazin should be placed in this group) (2) trans formation into serous cysts (3) complete conversion into scar tissue and (4) partial petrification with en capsulation of the petrified areas

BLUMEN AAT (Z)

Newland Sir H S, and Woollard H H Some Observations on Chordoma and the Natochord J College Surg Australusia 1929 IL 157

The authors report two cases of chordoms re tien the embryology of the notochord and discuss the his ology growth position and regional character and symptoms of chordomata

They believe that the ancrococcy real chordomata are probably derived from the part of the notochord that extends beyond the coccyx In the discussion of the etiology of the e tumors reference is made to the part played by trauma

In the differential diagnosis of sacrococcygeal tumors chordomata must be considered The nearer the crantal cavity a chordoma originates the more rapidly fatal it is Complete excision seems to

offer the best chance for cure

The authors classify chordomata into three groups corresponding to the different phases in the estomorphosis of the notochord. Mucin formation is regarded as a normal phase in the development of the notochord and appears to begin in the nucleus

The authors suggest that further study of the intervertebral disks might throw light on the caus ation of lumbar pain LOTES P GAMBLE M D

Behan R J The Treatment of Pain in Cancer Med J & Rec 1929 CXXX 514

The causes of pain in cancer include the ac tumulation of toxic products in and around the cancer mass infections and mechanical factors such as pressure \ chief cause of pain is the higher acid content of cancer tissue as compared with rormal tissue Repeated insulin injections appear

to reduce a general acidosis, relieve the pain of can cer, and raise the blood sugar. The pain of cancer is reheved also by the direct use of alkalies super ficially and orally Doub noted an alkaline re action in roentgen itradiated tissues

Restriction of the local blood supply of the can cer may reduce the size of the mass and relieve the pain due to pressure

serve section and block are recommended for selected cases

The use of narcotics and sedatives is indicated when other measures fail

CLARENCE & BATEMAN M D

Todd A T and Aldwinckle II VI Colloidal Lead Selenide and Radium in the Treatment of

Cancer Brit If J 1929 11 700 I rom the Cancer Research Department of the Bristol Royal Infirmary the authors issue a warning against the use of the \ rays or radium subsequent to the treatment of cancer with colloidal lead selen ide In five case in which a carcinoma had re mained stationary or had diminished under treat ment with colloidal lead selenide \ ray treatment caused prompt and marked stimulation of the growth of the neoplasm Radium treatment subsequent to the administration of colloidal lead selenide is fol lowed by ædema and necrosis of the tissues around

the growth and by sensis

In a series of experiments mice were implanted with Twort carcinoma Some of the animals were then not treated at all and others were first given intravenous injections of colloidal lead selenide in amounts less than sufficient to produce a decided re sult and then radium irradiation of the tumors. With one exception the tumors in the treated suimals advanced and were much larger than those in the untreated mice In a third group of rats which were treated with radium prist and then given similar amounts of colloidal lead selenide the tumors all diminished in size with one doubtful exception

The authors suggest that the selenium of the col loidal lead selenide may increase the sensitivity of the tissues to irradiation. They therefore recom-mend that the V rays or radium be applied with extreme caution if at all in cases of cancer which have been treated recently with colloidal lead selenide In cases of cancer which have been treated with ra dium they allow an interval of from four to six weeks to intervene after the irradiation before start ing treatment with colloidal lead selenide, and they give very small doses of the drug if the patient has had any graduation within three months

C II ISAGENSEN M D

MISCELLANEOUS

CLINICAL ENTITIES—GENERAL PHYSIO-LOGICAL CONDITIONS

Curtin V T and Kotzen H F Progena A Review of the Literature with the Report of a Case im J Dis Child 19 9 2271m 993

The term progria (prematurel) old) was first used by Gillord to describe an unusual morbid condition in which sendits and infanthism are combined. In their general appearance Gillord's three patients suggested either a child five years of age or a

wizened dwarfish old man Their height even after puberty was that of a child six years old The skull was large the fontanels were incompletely closed and the face was small. The hair on the scalp was so downy and sparse that at a distance the patient appeared quite bald. The eyes were large and protruding and there was almost complete ab sence of brows and lashes The nasal cartilages were prominent and the teeth few and irregular. The lower maxillæ the clavicles and the scapulæ nere small The chest was narrow and the mammary glands were attrophied. The abdomen was distended and the skin tense with obliteration of the umbili cus. The extremities were thin with enlargements at the epiphyses. The enlargements were most marked at the elbows and knees. The interphalangeal soints were also enlarged and the nails were atrophied. The skin was wrinkled and flabby and presented a brownish pigmentation

Examination of the organs revealed interesting similarities. Who is the patients had cardiac murs and thickneed and corticuous arteries. They were easily fatigued. Two of them gase a history of severe cardiac pain with radiation down the arms and attacks of oppression. All had digestive distributions consorcial and a disble of fats. Their in

telligence was above the average

The subsequent courses of two of the three paterns were almost identical. They aged rapidly became depressed and were fatigued easily. One ded at the age of securence vacary in a suncopal at tack after compliating of pain and oppression in the chest, and the other of pain and oppression in the chest, and the control of ampaid pain. Both or perfect marked evidence of sendle deterioration. The authors case was similar. The patients had a

stroke of apoplety and died following severe attacks of pain in the region of the heart

HOWARD A MCKNIGHT W.D.

Gelffith J P C Mikulicz a Disease and the Mikulicz Syndrome Am J M Sc 1929 chrvn, 853

The disease described by Mikulicz is characterized by chronic symmetrical enlargement of the lachrymai and salivary glands beginning in the lachrymai glands. The swelling is bard painless and apparently non inslammatory There is no die turbance of the lachrymai or salivary secretions or of the general health. The lympatic glands are not movived and there; no change in the blood

In addition to Mikulicz disease proper there are other conditions which closely resemble it fall in the classification of the Mikulicz syndrome and

are usually secondary to some form of leuk-mia Most of the cases reported were those of adults The etiology of the condition 1 obscure but studies have indicated a possible relationship to tuberculosis and syphilis

Examination of tissue from the salivary glands has shown an extensive deposit of small round cell and in many instances typical tuberles with graint cells but without caseation. However, the tubercle bacillus has not been isolated directly nor after inoculation of animals.

Various forms of treatment have been carried out including N 720 irradiation and anti-siphils measures but surhout beneficial effect. The proposes of Wikishez disease proper to uncertain but not entirely unfavorable since in some instances recovery has occurred spontaneously. In many cases the enlarged Jachn mal glands, have been exit ed.

in thith reports a case of Mikulicz disease and a case of leukarmia presenting the Mikulicz syndrome

Both of the patients were children

The article includes also a review of the literature and a discussion of reported cases published studies and the results of treatment. Griffs to concludes that while tuberculous may be a cause of Mikuthez di ease it is rarely responsible for it and that even a histological appearance in the glandwhich strongly suggests tuberculou. Is not positive proof that tuberculous is presented in a present and the constitution of the present of the proof that tuberculous is a present of the proof that tuberculous is present of the proof that tuberculous is a present of the proof that tuberculous is a present of the proof that tuberculous is present of the proof that tuberculous is present of the proof that tuberculous is a present of the proof that tuberculous and tuberculo

LERVE G BERDEN MD

Abrikossoff A The Fate of the Spontaneously De vetoping Fat Granuloma—Lipophage Granu loma (Lebr das behuksil der spontan auftreinden Feligranulome—lipophagen Granulome) Zentralbi f illg Palt n palk text 1930 til 157 3

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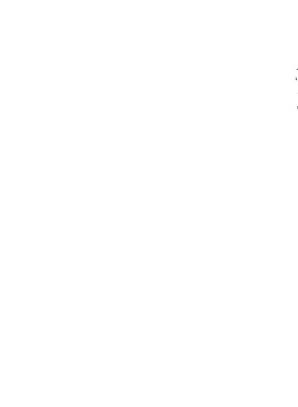
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INTERNATIONAL ABSTRACT OF SURGERY

IUNE, 1930

ABSTRACTS OF CURRENT LITERATURE

SURGERY OF THE HEAD AND NECK

HEAD

Resenthal W The Pathology and Therapy of the Temporomazillary Articulation (Pathologie und Taerapie des Riefergelenks) Fortschr d Lahnh 1929 1 175

The author first reviews the more recent contributions on the pathology and treatment of temporo manilary ankylosis hyperostosis of the capitulum of the condyloid process of the lower jaw chronic and habitual dislocation of the jaw fracture of the condyloid process, and contractures of the jaw, especially dicatricial contractures

in the operative formation of a new joint Rosen that chooses the site of the old joint. He shapes up the condylord process hollows out a new socket and interposes soft parts as a substitute for the in terarticular disk producing as nearly as possible the normal conditions so that even the unused chewing m seles regain their previous function. When the new joint is formed nearer the angle of the Jaw or on the horizontal ramus the chewing movements are not normal and the hite is much weaker. There fore it should be formed in the bend of the jaw only when cicatricial contracture or a previous suppura tion in the region of the original joint renders opera the interference at that site too hazardous Up to the present time the author has preferred the in ession of Lever running in front of the ear

Attention is called to the fact that the results of a successful joint operation may be lost again even many years

In lengthening of the body of the mandible with the aid of a bone insert in the horizontal rams or in the region of the chin the indirect method of free autoplasty recommended years ago by I avr and Heller and called by Axhausen the temporary transplantation of penosteum covered autogenous

bone comes into consideration In the ca e of a boy of five years the author dis covered at operation that the cause of locking of the law which had persisted since the patient's first

vear of life in spite of a normal joint cavity and in spite of resection of the coronoid process was a localized ossification at the point of origin of the masseter muscle After removal of this ossification the ability to open the mouth was permanently restored Circumscribed myositis ossificans has been discovered also by roentgen examination

Hypertrophy of the capitulum of the condyloid process is merely a benign hyperostosis

The author reports his observations in a case of habitual dislocation of the jaw in which the lower taw became hooked over the upper taw in an oblique position. He believes that in most cases of habitual dislocation an attempt should be made first to prevent dislocation by non operative measures such as the use of a guiding splint fixation of the laws to one another by means of rubber bands supplemented by repeated injections of a few drops of fincture of sodine into the joint capsule to cause shrinkage, strengthening of the chewing muscles by massage and electricity and measures to overcome the anie mia and general bodily weakness. The operative measures include the excision of wedge shaped seg ment from the relaxed joint capsule followed by a tucking suture according to the method of Perthes and Ritter fixation of the interarticular disk on the periosteum of the rim of the joint socket according tn the method of Hoeber and Konjetzny and the formation of a guy hand outside the joint from the fascia of the temporal region according to the method of Nieden In cases of fracture of the condyloid process the

Bergstroem mandibular support may he found of

Reflex contracture of the jaw may be induced by pressure irritation of the mandibular nerve

In conclusion the author reports his experience in a case in which the removal of a cancer of the cheek with plastic repair of the defect was followed by recurrence of the neoplasm and cicatricial con tracture of the jaw. The recurrence was excised and the resulting gap filled by means of a flap obtained

EDITOR'S COMMENT

DLOODGOOD S comprehensive discussion of lesions of the breast and their surgical treatment (p 504) is prefaced by the state ment that whereas in former years 80 per cent of patients who pre ented themselves with breast fesions had already developed malignant growths in recent years the percentage had de creased to 17 per cent, and that in 65 per cent of the cases without malignant disease operation was not indicated. Such a radical change in conditions is undoubtedly the result of the intensive campaign that has been carried on in recent years to awaken public interest in the importance of early diagnosis of malignant disease-a campaign in which Dr Bloodgood has taken an active and important part. One would be unduly optimistic however, to conclude that a unular change had occurred throughout the country as a whole. In our large chantable and semi charitable institutions, particularly, whose clientele represents so large a proportion of our metropolitan population the percentage of patients with breast lesions presenting themselves for treatment for the first time with a malignant growth already well developed is tragically high. For that reason one feels that too much stress cannot be placed upon the diag nostic criteria of early malignancy emphasizes this fact by calling particular attention to the condition which is must likely to be mistakenly considered a benign lesion-chronic cystic mastitis. He states that there are only 2 types of mastitis in which delaying operation is justifiable- the mastitis of pregnancy or lactation with fever leucocytosis and clinical signs of in flammation, and the typical shorty breast in which the breasts are rarely large and never of the fatty type, and the involvement is usually bilat eral He believes that the type of cancer which produces an area of induration like that of a caked breast is particularly likely to be overlooked or incorrectly diagnosed until extensive and wide spread di ease has developed

Pfables and Party a report of the results of contents therapy of cancer of the breast (p 500) so of particular interest in connection with Blood goods apage. They recommend as routine treat ment for operable cases pre operative irradiation with from 8 to 00 oper cent of the crythera doed during a period of two weeks, followed by operation three days after the last irradiation. Pot

operative irradiation is begun in from ten to four teen days after operation with a series of 1 teat ments and the series is usually repeated after from four to six weeks

Of 5r patient, with an early operable cancer, who were given postoperative treatment, operant were free from 5 mptoms at the end of the percent were free from 5 mptoms at the end of the percent were free from 5 mptoms at the end of five percent with glandular involvement at the time of operation 6.5 per cent were free from 5 mptoms after three years of 164 pitches with recurrent can nome treated by irradiation, 18 per cent with reliance in line given from 164 pitches from 164 pitches with recurrent per large free five years of 150 patients with put mary properable carcinoma 20 per cent were living after five years of 150 patients with a fatter five years of 150 patients with the properation should be supplemented in all cases by irradiation.

An unusually interesting group of cases of in testing obstruction due to biliary calcula pre sented recently before the Societe Nationale de Chirurgie is reviewed in this month a issue of the ABSTRACT (pp 513 and 515) The seriousness of this condition is evidenced by the fact that of a cases reported in detail by 3 different surgeons, 4 nere fatal. In a case death occurred from pentonitis on the tenth day. Autopsy revealed a per foration both of the gall bladder and the duodenal In a second case the patient made an excellent recovers and left the hospital on the twenty second day. On the thirty tifth day she returned with an acute hamorrhagic pancreatitis and died a few hours after operation. In a third case in which death occurred on the second day after operation autops; disclosed a hæmorrhage into the sheath of the right rectus a nalled-off perioration of the gall bladder into the duodenum and when the dubdenum was opened a second perforation through which a stone was beginning to enter the duodenum

The importance of remembering the possibil is of double obstruction of a second stone making is was, from the gall bladder into the duodenam and of an suspending, perforation of gall bladder or duodenum or both is emphasized by these reborts

The figure of this becomes of with D hard attracted to emitte a contractive sentirective a contractive for the property of the contractive for the property of the contractive for the property of the contractive form of th

INTERNATIONAL ABSTRACT OF SURGERY

JUNE, 1930

ABSTRACTS OF CURRENT LITERATURE

SURGERY OF THE HEAD AND NECK

HEAD

Rosenthal W The Pathology and Therapy of the Temporomaxillary Articulation (Pathologie und Therapie des Kiefergelenks) Fortschr d Zahnh 1929 v 175

The author first reviews the more recent contributions on the pathology and treatment of temporomanilary anxious hyperostosis of the capitulum of the condyloid process of the lower jaw chrome and haintual dislocation of the jaw fracture of the condyloid process and contractures of the jaw threath.

especially cicatricial contractures In the operative formation of a new joint Rosen that chooses the site of the old joint. He shapes up the condyloid process hollows out a new socket and interposes soft parts as a substitute for the in terarricular disk producing as nearly as possible the normal conditions so that even the unused chewing mas les regain their previous function. When the hew joint is formed nearer the angle of the jaw or on the horizontal ramus the chewing movements a e not normal and the bite is much weaker There fore it should be formed in the bend of the jaw only when cicatricial contracture or a previous suppura tion in the region of the original joint renders opera tive interference at that site too hazardous. Up to the pe ent time the author has preferred the m cision of Lexer running in front of the ear

Attention is called to the fact that the results of a successful joint operation may be lost again even after many years

In lengthening of the body of the mandible with the ail of a hone insert in the horizontal rami or in the tego in of the chair the indirect method of free autoplasty recommended years ago by Payr and Heller and called by Axhausen the temporary transplantation of periosteum covered autogenous

bone comes into consideration.

In the case of a boy of five years the author discovered at operation that the cause of locking of the law which had persisted since the patient's first

vear of life in spite of a normal joint cavity, and in spite of resection of the coronard process was a focalized ossification at the point of origin of the masseter muscle. After removal of this ossification the ability to open the mouth was permainently restored. Circumscribed myositis ossificans has been discovered also by poentigen examination.

ffypertrophy of the capitulum of the condyloid

process is merely a bonigh hyperostosis

The author reports his observations in a case of habitual dislocation of the jaw in which the lower jaw became booked over the upper jaw in an oblique position. He believes that in most cases of habitual dislocation an attempt should be made first to prevent dislocation by non operative measures such as the use of a guiding splint fixation of the jaws to one another by means of rubber bands supplemented by repeated injections of a few drops of tincture of sodine into the joint capsule to cause shrinkage strengthening of the chewing muscles by massage and electricity and measures to overcome the anæ mia and general boddy weakness The operative measures include the excision of wedge shaped seg ment from the relaxed joint capsule followed by a tucking suture according to the method of I erthes and Ritter fixation of the interarticular disk on the periosteum of the rim of the joint socket according to the method of Hoeber and Konjetzns and the formation of a guy hand outside the joint from the fascia of the temporal region according to the method of Nieden

In cases of fracture of the condyloid process the Bergstroem mandibular support may be found of value

value

Reflex contracture of the jaw may be induced by
pressure irritation of the mandibular nerve

In conclusion the author reports his experience in a case in which the removal of a cancer of the check with plastic repair of the defect was followed by recurrence of the neoplasm and cicatrical contracture of the jaw. The recurrence was excised and the resulting gap filled by means of a flap obtained.

from the neck. A permanent cure even as regards the function of opening the mouth was obtained Georg Schmitz (2)

EYE

Duke Elder W S The Clinical Application of the Newer Conceptions in the Physiology of the Eye Lancet 1930 CCXVIII 4

The authors discuss the chemistry of the various tissues of the eye under normal and abnormal conductors that many pathological phe nomena may be rationally explained on the basis of physiological chemistry Sawerk A Brea WD

Stallard II B Some Observations on the Causes and Treatment of Simple Detachment of the Retina Brit J Ophth 1930 NV 1

The author reviews 100 cases of detachment of the retina reported from various sources. Accord ing to the mechanical theory the detarbment : the result of increased pressure behind the retina de creased pressure in the vitreous or the contraction of adhesions between the retina and the vitreous According to the diffusion theory the retina acts like the animal membrane of a dialyser separating two physiological fluids which under pathological con ditions have different tensions so that the fluid from the vitreous passes through the setina. Ac cording to the cause, detachments of the retina may he grouped as follows (1) the traumatic (2) those due to progressive my opia (3) the inflammatory (4) the congenital (3) the parasitic and (6) the idionathic

Stallard discusses the treatment from all angles and describes many operations. The most success and describes many operations. The most success of multiple scleral punctures with a cattract hair followed by the opinuturityal injection of x coo mercury cyande onjunctival injection of x coo mercury cyande followed by weekly insection, of hypertone saltsolution under the conjunctiva at the site of the detachment.

Swift G W The Transverse Sinus and Its Rela

Many theories have been advanced to explain choked disk. The author is inclined to accept the mechanical theory. The general cerebral circulation depends on a free circulation within the transverse and sigmoid sinuses while the orbital circulation depends on a free cavernous and petrosal flow The two join partly at the sigmoid and totally in the meular bulb A normal and symmetrical venous sinus system is so adaptable that compensation occu s easily when one side is partially or temporanly blocked It is the asymmetrical embryonic malformations of the sinuses which contribute to imbalance of circulation. As constancy of the car emous and petrosal sinuse, is clearly established choked disk in lesions of the cereb llar fossa denotes variations in the transverse sigmoid and jugular GEORGE R. McACIFF M D bulb

EAR

Hallpike C S Some Observations on Bone Con duction J Laryngol & Otol 1930 2ly 1

Bone conduction tests were carried out in a senso of cases of conduction dealness. The cases are divided into the following four groups. Group: those in which a radical mastered operation had been done Group a those of chronic suppurative cuitis media and its sequelse. Group; those of otoscleross and Group 4 those of chronic catarrhal ottis media.

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It is thought that in these cases there is a true loss of cothlear sensibility which under the ordinary circumstances of the Schwabach test, is late? The importance of the absolute bone conduction test in revealing the loss is therefore evident

It is suggested that latent cochlear loss in the early stages of chronic middle ear dealness is the most important guide to the prognosis and treat ment Turns C Braswett VID

Helsloertem J Jr and Nyssen R Experimental Studies of Sensibility to Pain Associated with Auditory Stimulation (Recherches experimenistles sur la sensibilité à la douleur accomparma à les extrations suditives). Arch internal de l'Ipipil

1920 XXXV TOAS The authors report experiments which showed that the pain caused by an auditory stimulus ceases in a few seconds but the time varies in different per sons. When a similar stimulus is applied at regular intervals the duration of the pun decreases pogressively with successive applications in all sub jects and ultimately pain may cease to occur. The decrease occurs rapidly at first and then more slowly If when the pain has stopped after a senes of apple cations of the stimulus on one side the same spinulus is applied on the other side increased sensitiveness is manufested by greater intensity of the pain longer duration of the pain after the first three or four appli cations of the stimulus and recurrence of the pain after a greater number of applications of the sumu ACDREY C MORGEN MD

Weber M Orosclerosis in Its Ilistogenic Relations to Osteodystrophia Fibrosa (Osteitis Fibrosa) Irch Ololaryngol 1930 m 1

Otosclerous and osteodystrophia fibrosa represent degenerative reactive expirative processes. Per simulally through the action of the blood vessels a dystrophy causes degeneration of the bone, thus lething to irritation of the bone forming system. The irritation manifests itself in recorption and the injectance of young mesenchymal tissue which is the findamental stage of bone formation Regressive changes lead to numerous maldifferentia bons resulting in the pseudo tumors known as immirtoplasus or brown tumors. Only the cases showing focal involvement of the laby ninthine cases with malk) oss of the stapes should he design start of as cases of time oto-clerosis. When found in conjunction with a generalized osteody-strophia blooms seen in Paget's disease and von Reckhing hauge's disease and von Reckhing hauge's disease and order of the strendard dystrophy. Grozor R. Nickturry M.D.

Jones M. F. and Gerstly, J. M. Ear Infections in Babies V. Lork State J. M. 1930 vvx 1

According to anatomists the mastoid cells de velop at about the time of puberty, but according to chincal expenence these cells are to be found much earlier The treatment of infection therefore varies with the age of the child For purulent outs de scloping before the age of four and one half years the authors advocate early myringotomy alcohol stabbing or boric acid irrigations. In the cases of children under one and a half years of age the oper stive procedure should be anthrotomy performed under local anaesthesia. Later in childhood a mas toidectomy must be done when indicated as after four and one half years the child a mastord resembles the adult mastord Farly operative work will de c ease latent mastorditis intracranial complications and deafness

Or a total of 252 surgical cases the authors found hat the largest percentage occurred within the first trop years of life and that in 83 5 per cent of these the ladeting organism was the fixenolytic streptococcus

Mangabeira Albernaz P A Large Pneumatic Cell in the Petrous Portion of the Temporal Bone

GEORGS R MCAULIFF, M D

A Contribution on the Pathogenesis of Grade high a Syndrome (Grande cellule pneumatique du rocher Cont ibution à la pathogene du syndrome de Gradenigo) Arch saternat de laryngol 1920 xxv 1935

According to one theory Gradeugo's androme is brought about by an infection of the tympane cavity transive ted to the apex of the pyramid through cells, the bone. The author reviews the work that has been done on the development of poeumatic cavities in the tip of the petrous portion of the temporal bone and describes a pneumatic cell when the property of the temporal bone and describes a pneumatic cell.

which occupied almost two thirds of the hone. He states that while it might seem impossible theoretically cells in the petrous hone to be one of the chief cause of Gradenigo as a notioner changed campaign one as the contrary. Scars found desired either the tip of the petrous hone in say of latter, accept the truth of the petrous hone in say of latter, accept of parts) as of the external occupion of more following offices which he studied at autopsy and in cases reported by Ulinch and Schlaender the

cause of the condition was proved to be an apical abscess Recently the tip of the petrous bone has been studied by roentgenography According to Magneri Gradenigo's syndrome is the result of a tartelying ostetuts

It is evident therefore that the cellular route is important but nome cases the condition develops so rapidly that the infection must be transmitted more directly. However when the cells are very highly developed as in the case reported by the author the infection may reach the tip of the pyra mid by way of the cells as rapidly as by way of the vens.

Mollison W M A Brief Survey of the History of the Mastoid Operation Proc Roy Soc Med,

Lond 1030 xxiii 381

Brown L C The Friumphs and Failures of the Mastold Operation Proc Roy Soc Med Lond, 1030 xxiii 385

Stewart J P and Fraser J S The Radical Mastoid Operation Proc Roy Soc Med, Lond,

Walson D A New Operation for Closure of a Postoperative Mastoid Fistula Proc Roy Soc

Mill W A Three Cases of Conservative Mastold Operation with a Temporal Muscle Graft

Proc Ray Sec Med Lond 1930 XXIII 401 MOLLISON states that the first reference in the fiterature to surgical opening of the mastoid was made in 1649 but it is probable that the mastoid was operated upon as early as 1524 Operation was done first for the relief of tinnitus It was not per formed for the evacuation of pus until 1740 (Tetit) In 1861 von Troitsch published a work on surgery of the masterd but credit for the ma tord operation is given to Schwartze (1873) Wilde Toynbee, Hinton. and others modified the technique. In 1880 Stacke and Jensen evolved the radical mastord operation which superseded trephination In 1807, conservation with preservation of the middle ear and ossicles (simple mastoidectomy) was advocated for acute cases In 1904 Heath urged conservatism In 1011 Stacke in an article entitled ' Conservative Radical Operations described the most recent form of the operation at that time Since 1904, the technique and indications have been further changed. The radical operation is now done only for chronic mastoid disease with suspected cerebral complica tions and cholesteatoma. In 1926 Fraser stated that even cholesteatoma is not a positive indication

Brows emphased that the aims of the sams augreen should be (1) to endacate the pathological condition (2) to obtain complete and relatively rapid eating of the wound and (3) to preserve, as far as possible the physiological function of the organ of earning. In severe mastord desser the simple mass forming in severe mastord desser the simple mass forming the severe and the severe that the severe the severe the severe and the severe that the severe the severe

GEORG SCHAMM (Z)

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496

EYE

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Weber VI Ocosclerosis in Its Histogenic Relations to Osteody strophia Fibrosa (Osteldis Fibrosa) Arch Ololaryagol 1930 m. 1

Otoscle our and esteedy strophia fibrosa tepresent degenerative reactive separative processes Presumably through the action of the blood vessels a dystrophy causes degeneration of the bone thus

MOUTH

Thibault and Raison Septicæmias of Buccoden tal Origin (Les septicémies d'origine bucco dentaire) Presse med Par 1929 xxxvII 1528

According to the modern conception of septi tamia a series of microbic or toxic discharges occur from a focus of infection into the blood stream with resulting visceral metastases (pyamia) or without visceral metastases (septicamia) The septicamias of buccal ongon are of two types the acute and the throne In the acute forms the invading organism is usually the streptococcus or staphylococcus The authors are in favor of immediate extirpation in most cases of this type but recognize that the time of intervention must olten be determined by the local conditions

The theory that chronic dental infection may be a cause of distant lesions in various organs is of Amencan origin and based on the studies of Rose now and Billings It is generally regarded as correct

In the discussion of this report WEIL stated that the distant manifestations are often allergic because the recovery that follows the suppression of the focus is frequently more sudden than it would be if the organ were directly invaded by the streptococcus ALBERT F DE GROAT M D

Bukett G E Radium Treatment of Buccat Car cinoma Beit J Surg 1930 XVII 493

In the treatment of malignant disease in any site the primary growth the immediate lymphatic drain ge area and distant metastases must be taken into consideration Radium therapy cannot deal with metastases The treatment of the primary growth 17 buccal carcinoma is on a satisfactory bass but the problem of the treatment ol the lymphatic drainage area is by no means solved It is believed that the primary growth and the gland bearing area should be treated as eparate entities and that the primary growth should be treated

In the Manchester and District Radium Institute the diagnosis is made almost invariably from the chancal pr ture Biopsy is regarded as inadvisable Lesions occurning in different areas of the mouth tiry in their histological character. While all of them respond to radium the most brilliant results from radium therapy are often obtained in advanced

carcinoma at the base of the tongue The radium treatment of the primary tumor has undergone a gradual evolution but is now more or less standardized whether the element or emanation

With regard to the advantages of the use of needles as compared with removable radon seeds there is a difference of opinion. As the external di ameter of both needles and seeds is reduced to the minimum the trauma from insertion is negligible Seeds however have a relatively short active length (usually 0 3 mm) whereas needles vary in length from 10 to 30 mm

The author uses a minimal filtration of o 5 mm and a maximal filtration of 0 6 mm of platinum The dose is determined by the nature and extent of the growth

The needles are inserted under general anaesthesia induced preferably by the intratracheal method

The author does not remove septic teeth before beginning the treatment unless they are sharp and carious and have been the chief factor in the de velopment of a growth in the middle third of the tongue

The needles are joined by stout silk thread before their insertion and the silk thread is fixed to the soft tissues with catgut

Birkett has not come to any definite decision with regard to the use of the element or emanation but has gained the impression that treatment with the element has been followed more frequently by necro

The technique used by the author in various sites of the buccal cavity is described. In the treatment of the bard palate and alveoli plates made of vul canite are used the units of irradiation being placed in a box

Protection of bony structures and soft tissues ad tacent to the lesion by lead plates is regarded as un necessary

By about the tenth day after the treatment quite an appreciable change in the lesion will be apparent If the lesion was a projecting tumor it will be con siderably flattened and for a variable distance around at from a to 2 cm of the normal mueosa will be covered by an adherent greenish yellow fibrinous de posit in cases of nodular lesions the treated area resembles an infarct and the line of demarcation be tween the reaction zone and the surrounding mucous membrane is very sharply defined. Induration dis appears within three or four weeks. If the response is perfect little or no trace of the lesion will be left alter from six to eight weeks. Over treatment may lead to radium necrosis. This may not appear until some time alter the irradiation

The treatment recommended for the lymphatic

area is as follows

s Cases without palpable glands. If the lesion is unilateral block dissection is favored. When the lesion is bilateral the most conservative procedure is irradiation of both sides of the neck by multiple fori

2 Cases with palpable but mobile glands Block dissection should be done even when the condition is bilateral In bilateral cases there should be an interval of two or three weeks between the opera tions The dissection should be lollowed after ten days by prolonged external irradiation

3 Cases with fixed glands In the Manchester and District Radium Institute the treatment in cases of this type which are not too lar advanced has been along the same lines as the treatment of the primary growth by implantation Il surgery is de cided upon a block dissertion should be done and followed by the implantation of radium needles or external urradiation with the use of a collar

after procedure is directly influenced by the degree of hearing relained. For the presert ston of hearing preservation of mobility of the round and oval win drows is essential. The modified radical operation with preservation of as much as possible of the tym panic membrane and middle are contents is indicated. When the patient relains no weigh hearing the complete radical massion operation may be in detable. Poor results of operation are increased definess with or without an aural discharge fistule unsightly scars; facial parafixus and intracramal complications. The last two are due to faulty tech inque. Thorough eradication of all foot of infection in the mistoid and proper after care are essential.

STEWART and FRANCE emphasize that acute ear conditions should be prevented from becoming chronic Scatlet fever and measles are re ponsible for over half of the ca es of mastoid involvement Aural polyps with symptoms are responsible for a third of the operations on the mastoid Polyni tend to recur after removal. In most of the cases the mastoids are cellular Chronic mastoid conditions with pain should be operated upon. The incus is more liable to disease than the malleus I enchondra tis seldom occurs after operation. The most danger ous postoperative complications are laby mathitis and the resulting meningitis. When they occur the laby rinth should be drained. Shin grafting decreases the pain and the length of time the patient is obliged to remain in the hospital Patency of the eustachian tube and failure to keep up postoperative care are responsible for most of the failures of operation

Mill reports three cases in which after a Schwartze operation the initis was exposed by removing the outer wall of the adults and was then removed. The bridge was left intact. The castly was then cleaned with hydrogen peroude and alcohol and filled with a temporal muscle the round a triph bandage was applied. The results as regard diviness of the earth part of the product of the product of a triph bandage was applied. The results as regard diviness of the same and hearing were good. Maxvora & Wastra & LD.

NOSE AND SINUSES

Rouget and Ferrand Ethmoiditis in the Child (Lethmoidite chez ler'ant) Arch internal de larintol 1919 xxx, 909

Whereas in the adult infection of the ethinoid sinus is usually associated with fesions of the frontal

and sphenoidal sinuses in the child it is most ofcosolated because the two other nuises do not deep outful later. The predisposing causes are the same a those of ottus. Rhimopharygael infections play an important roll e-specially in children with ade noids. Measles diphthems, and particularly scar ket fence are frequently complicated by a form of themodatis which is accompanied by supportant at the onset. In the authors' experience the bactern most commonly, responsible for the infection were supportant of the properties of the infection were supportant of the properties of the infection was supported by the properties of the properties of the properties of the supported by the properties of the properties of

streptococt

The clinical aspect of the condition is that of periodistal cellulitis with minimal rhinological ugas. Following coryza or in the course of some other infectious di ease swelling occurs in the intensi angle of the eye and both di. If the swelling wery marked, the eveball may be pushed downwarf to the except of the possible of the control of the except of the possible of the course of the possible of the control of the except of the possible of the course of the possible of the control of the except of the possible of the course of the eveball are unaffected except for skyll insulation to the upward and insured the correct for the caused mechanically by the swelling Skgb insulation to the upward and insured the control of the cortex is found at times but the

evegrounds are always normal
in the roentgen picture front trew the ethmo d
shows a los of transparency while the frontal and
sphenoidal situses, if visable on the plate are clear
With the use of first a position it is possible to judge
the extent of the lesson

The disease has run one of two ook-se a rouns with congestion which clears up rapidly under med seal treatment or a course with supportion in the latter which is particularly frequent in seal let feer the aweling increases the temperature remains high and the child is unable to sleep janking to sleep in a valuable ago in determinate necessity for operation. The course may be characterized by successive remissions and exacted tools In one of the authors cases several attacks of the congestive variety were followed after an interval of months by an attack with supportation.

As the infection is isolated the prognous is excellent in the congestive forms and in general is good in the supputative forms. However in steep occurs infections and in cases which complicate seated fever phlegmon of the orbit and meningits are possibilities.

In the congestive form the treatment should consist in the application of most flot dressing disinfections the lone and the use of vaccines in the consistency in the consistency in creasars. Access should be obtained by the orbital route. The schmoal must be carefully cleaned out with the blade of the curette directed downward and inward awas from the dura and the speball. A few treatments with the ultravolet rays after the operation will be found to give good results.

FLORENCE A. CARPENTER

SURGERY OF THE NERVOUS SYSTEM

BRAIN AND ITS COVERINGS, CRANIAL NERVES

Stricker P and Grueter F Experimental Studies of the Function of the Anterior Lobe of the Hypophysis The Influence of Extracts of the Anterior Lobe on the Genital Organs of the Rabbit and the Establishment of Lactation (Recherches experimentales sur les fonctions du lobe anténeur de l'hypophy se Influence des extraits du lobe antérieur sur l'appareil génital de la lapine el sur la montée laileuse) Presse méd Par 1929 EXEVR 1263

Numerous functions have been ascribed to the asterior lobe of the pituitary body but one of the most remarkable is its influence on the genital or gans To Evans and his students belongs the credit of having drawn attention to this phenomenon first Evans demonstrated that the administration of an estract of the anterior lobe eauses the appearance of corpora lutes in adolescent rats. Smith a pupil of his found that, by the daily intramuscular trans plantation of fragments of the anterior lobe of the hypophysis it was possible to provoke sexual ma turity in young female rats Excision of the hy pophysis before puberty retarded or suppressed the development of the genital organs. In the male, the effects were less noticeable. Zondek and Ascheim confirmed these findings. They regard the anterior lobe of the hypophysis as an activator of the ovarian function The hormone of this lobe is found in the unne of pregnant women together with the follicular hormone

The authors conducted their experiments prin upally on the rabbit an animal in which the ova do not mature and corpora lutea do not develop until after copulation Extracts of the whole gland were employed The purified extracts seemed to act only on the ovaries and not on the function of the mam

mary glands

When a young rabbit received two injections of an citract corresponding to 0 5 gm of the gland given at intervals ranging from twenty four to forty eight hours marked hyperæmia and enlargement of the ovanes with swelling of the follicles and at times the formation of corpora lutea were observed. These changes occurred in four or five days After a series of from six to twelve injections the ovaries some times resembled a hunch of grapes hecause of the de elopment of numerous large granfian follicles and corpora lutes. The ovarian changes were accompanied by hyperæmia and hypertrophy of the uterus

Rupture of the follicles in an adult rabbit in rut could be produced by a single injection of the extract In the adult castrated rabbit the extract caused hyperæmia of the tuhes and uterus but the mucosa did not undergo the changes preparatory to implan tation of the ovum

No effects were noted in the breasts of young rab bits doubtless because the hypertrophy is dependent on the development of the corpus luteum but when the extract was administered to adult rabbits in rut and after copulation with a sterilized male (vas h gated) milk appeared from two to four days after the

beginning of the injections

To determine whether the lactic secretion was dependent on the ovarian activity rabbits were cas trated ten days after a sterile coitus and then treated with the extract The secretion of milk appeared as hefore even after a delay of from three weeks to three months In the latter instance the breasts had involuted In the rabbit and dog the secretion of milk may be re established fifteen days after wean ing of the young ALBERT F DE GROAT M D

Leopold S S Spontaneous Subarachnoid Ifæmor rhage Med Clin \ 4m 1930 xm 860

Subarachnoid hamorrhage may occur as the result of an inflammatory process such as syphilitic tuber culous or meningococcic meningitis as the result of a deficiency in factors concerned in blood coagula tion, such as occurs in hæmophilia purpura, and leukæmia and as the result of trauma

Spontaneous subarachnoid hæmorrhage is due to arterial aneurisms and arterial disease of non hacterial origin. Its early age incidence is strong evidence against arteriosclerosis as a cause. According to the literature intracranial aneurisms in young persons are not uncommon and are hardly ever due

to syphilis

It has been assumed that hemorrhage may occur from a functional vasomotor disturbance of the tessels in the subarachnoid region analogous to that which is supposed to occur in Raynaud a disease and certain cases of migraine

The symptoms and physical findings resulting from the sudden extravasation of blood into a serous cavity are those of meningeal irritation and may be indistinguishable from those of meningismus or meningitis accompanied by moderate fever Small hæmorrhages produce a slight increase in the intra cramal pressure resulting in headache vertigo and comiting and occasionally a brief loss of conscious ness When the hæmorrhage is large, coma and rapid death may ensue Frequently the onset is pre ceded by a snapping sensation referred to some part of the head

The diagnosis of spontaneous subarachnoid ham orthage is made by excluding all of the well recog nized causes of intracramal hamorrhage such as trauma the rupture of an intracranial cyst tumor acute and chronic meningitis malignant and sub

death

It the present time treatment of the lymphatic drainage area with radium alone is not satisfactory largely because of the fact that the supply of

radium is limited

There are no figures for five year end results in
England, but Continental workers report a five
year cure in 45 per cent of cases as regards the pri

mary site and absolute cure in 20 per cent

NECK

Lahey F H Primary Hyperthyroidism in Chil dren Sure Clin A Am 1020 15 1327

Primary hyperthy roidsim or exophibalmic poiter is not rare in children. It occurs as typically in children a; in adults. In the child the thyroid gland shows the same moderate enlargement and the same firm consistency and stare activation excitability nervosiness, and tremor are as apparent as in the odult. Tachi cardin and loss of weight are similarly present to a degree propor tonate to the degree of intoraction.

Because of uncertainty as to the degree of reaction in young children Labe, has operated in practically all cases of purmay hyperthyroidsum in children in two stages performing subtotal hemith rendectown first on the right side and about ax weeks later on the left side. In most of the cases there was a man'd effection in the rapid ity of the pulse but in none was there any general reaction of such a character as to suggest danger of As myxcedema is particularly undesirable in chil dren the author has made it a rile to leave slightly larger remnants of thyroid in children than in adults SAMPLE KARY W.D.

Palmer W W The Significance of Abnormal Metabolic Features in the Management of Thyrotoxicosis Ann Int Med 1910 in 6.1

Palmer points out the necessity of considering all of the shormal metablic features in the mange ment of thyrotoxicosy. He descrise first the basin metabolism and the effect of iodine therapy. The distinction of maintaining natiogen equilibrium is cited. In the more four cases a calonic inside of from 75 to 100 per cent above the basin metabolism determined with the patient in bed is necessary to extablish introgen equilibrium or a positive balance. The dancal evidences of toxicity are important. The dancal evidences of toxicity are important.

weight
Associated with the disturbince of nitrogen me
tabolism is the creatin creatinine mechanium Nor
mally when a creatin free dies given the wareis
free from creatin but in cases of thyrotonious tell
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in the unitrie of creates or disappear. Whether out
this has any relation to the presence of a phosphoric
creating compound in the muscles is not clear.

The phosphorus calcium balance is also altered but its significance is not clearly unde s'ood

FRANE B BERRY MD

MISCELLANEOUS

Collier J Localization of Function in the Nervous System Brit M J , 1030 1 55

This article is an exposition of the most recent advances in the localization of function in the nervossistem in which the author traces the development of nervous system localization from its idea tom be Gall up to the present time.

The author's conclusions are as follows In the consideration of a faculty of the nervous sistem it is just to locate the function in the whole of the anatomical substratum connected with it and not in any one part of it. The substratum is a path commencing in the periphery entering the central nervous system and converging with other paths which modify its function at each convergence entering the cortex of the brain and spreading widels with infinite convergences and modifications of func too and gathering again thence to return to the peophery Insofar as this path is compact and single it is volnerable to local destructions. Inasmuch as it is diffuse or duplicated in another place it is not vulnerable In the cortex of the brain the paths soon become diffused Keep away from those regions of the cortex through which the compact single paths to and from the periphery are known to pass and ablations will produce no loss of function for the path is here too widely spread and the function too widely distributed to be influenced by small local loss nor will such terms as annexes association areas or the word psycho prefixed to any word that you may wish satisfy us in the absence of any definite evidence as to the functions of the highest product of evolution—the cerebral cortex

'The experimental physiologists of today have laid down that the motor cortex is only so called by them because it is more excitable than the rest of the cortex and that even in this region lability of function facilitation and deviation of response are more characteristic features than is localization, and that there must be other mechanisms than this are central cortex which act directly upon the lower motor mechanism by means of direct descending fibers and that normal motor activation takes place through descending fibers from many parts of the cortex and that in complex motor activity the cerebral cortex acts as a whole though the activity of some parts of it may be accentuated and of other parts depressed and that the activity of any one part of the cortex is conditioned by the balance of innumerable activities which proceed from other parts of the cortex The physiologists have aban doned the localization of function within the cerebral cortex and this position is in accord with clinical evidence in man

It is obvious that each region of the cerebral cortex must be of equal functional importance in the makeup of the perfect animal yet it is difficult to give up the belief that those regions of the cortex which immediately make the production of the control of the production of the produc

acute infectious endocarditis and diseases of the blood The spinal fluid is usually under increased pressure and uniformly mixed with blood. In prehimmary studies the author was unable to obtain evidence indicating that the van den Bergh test is capable of differentiating between blood due to preexisting hamorthige and that due to accidental contamination

Recovery may be expected when a small hormor rhage results from sunstroke or some vasomotor disturbance and when the increased intracramal pressure is relieved by spinal puncture. In cases of hamorrhage occurring in youth presumably as the result of congenital weakness of the arterial walls or the rupture of small and probably congenital ansuri ms recovery is frequent although recurrence is not uncommon. In the cases of old patients with arteriosclerosis the prognosis is extremely poor

In the diagnosis and treatment of spontaneous subarachnoid hamorrhage spinal puncture is in dispensable. Other methods of reducing intracranial pressure particularly the intravenous use of hyper

tonic glucose may also be of value

ROBERT ZOLLINGER M D Green F H & Miliary Angurisms in the Brain

J Path & Bacteriol 1930 xxxiii 71 During an examination of the brains of ten ar

teriosciemtic subjects with high blood pressure three undoubted miliary aneurisms were found Two of them had ruptured giving rise to small harmorrhages in the brain substance. The third was completely thrombosed and lay in relation to a zone of ischæmic softening

The author suggests that miliary aneurisms arise

only where atheroma involves the media of an arters to an extreme degree A technique is described for the search for miliary

aneurisms in the brain David J Incast are M D

Towne E B The Treatment of Pitustaty Tumors 4nn Surg 1930 xcl 29

This article is summarized as follows z Eighty per cent of pituitary adenomata are

solid and 20 per cent are custic 2 Twenty per cent of patients retain useful vision for more than five years after operation 80 per cent show no improvement or after more or less marked improvement develop a recurrence after about the years

3 The operative treatment of pituitary ade nomata has a mortality ranging from 7 per cent up ward Roentgen treatment has no mortality

4 Cases are reported which show that long con tinued favorable results may be obtained from roentgen treatment and that if the result is not good a cystic tumor favorable for surgery may be

diagnosed The custom of following surgers immediately by roentgen ray treatment confuses the issue The two methods may be u ed separately without jeop ardizing the chance for cure

6 It is proposed that all pituitary adenomata he treated with the roentgen ray under the observation of the ophthalmologist and the neurosurgeon that the treatment be stopped as soon as improvement begins and that surgery be undertaken short of six months only when visual acuity and fields recede under roentgen ray treatment

Exic Oldrers M D

SPINAL CORD AND ITS COVERINGS

Makrycostas K The Practical Clinical Stanificance of Angioma of the Vertebrae (Ueber die prak tisch klimische Bedeutung des Wirbelan-toms) trek f klin Chir 1920 ch 663

The author states that in 2 ro4 cadavers in which a search for vertebral angiomata was made by Schmorl such tumors were found in about 12 per

cent. In some instances they were multiple Vertebral angiomata rarely give rise to definite symptoms When they do the symptoms are those of transverse myelitis. They produce severe symp toms most frequently in vouth. Sometimes they cause death from compression myelitis

The author report in detail the findings in a case of ancioma of a verteb a which was discovered accidentally at autopsy on the hody of a man thirty one years of age. The tumor involved the entire vertebral body and had enemached onto the se te brai arches

Makry costas believe that the diagnos s can be made during life by roentgen examination especially when the tumor has attained a si e sufficient for it to cause noteworthy chaical symptoms and bas produced a ballooning out of the body of the vertebra HOOK (4)

SYMPATHETIC NERVES

Rogers L. and Hemingway A Perlarterial Sym pathectomy An Experimental Investigation of the Effects of This Operation upon Local Car

culation Brit I Surg 1930 vin 473

The authors performed penartenal sympathectomy on the femoral or popliteal arters or both vessels in cats and on the common carotid arters in rabbits The method usually employed was carbolization In the experiments on the cats they compared the circu lation of the hind leg of the side on which the sym pathectomy had been done with the circulation in the hand leg of the normal side by the use of vasodila tors such as acetyl choline and hi tamine Vasodi latation usually followed the operation but was very transient In a comparison of heat production on the side operated upon and the normal side very little difference was noted

In the experiments on rabbits the ear on the side on which the carotted artery was carbolized showed vasodilatation for about forty eight hours Section of the main sympathetic trunk produced a similar but much more marked and pro'onged dilatation

LEG M DAYBORT MD

ar approaching the menopause and are apt to be occuregly while those with diluge applilary eyst alcona are underweight. Palpation reveals be settle the apple and areolar zone one or more asses, usually of the shape of worms and often no higher than the largest angle worm. The surgeon and publogust should bear in mind that the gross find may be a shape of the state of distelled understilled with grumous material is stant cancer also that frozen sections may be admictly to the section of the sectio

Lumpy breast has been described by Warren as cobble-stone hreast It is usually bilateral and a the most common finding in women seeking advice ngarding a breast condition Multiple lipomata may produce a lumpy hreast Senile hreasts with rregular distribution of fat and fibrous stroma and lictating breasts with residual areas of lactation hypertrophy are lumpy breasts Dilated duets be neath one or both nipples are found only rarely in shotty breasts but frequently in lumpy breasts In toan er women multiple encapsulated adenomata and in older women chronic cystic mastitis may pro dure multiple definite lumps in one or both breasts its rule benign multiple lesions are bilateral and malignant lesions are unilateral. Too many breasts of older women are sacrificed because of multiple hue domed cysts

Chronic cystic mastitu or caked breast may protice a tumor of the diffusic mastitus type. There is noting more medious thin the type of cancer that produces an area of industrion like that of a caked brist. There are only tumor the district mastitus in which delay of operation is justified. In a state of a perspansey or lactation associated with fever and alternation of the produce of inflammation and the superior of the proting of the produce of the produce of the proting of the produce of the produce of the proting of the produce of the produce of the protice of the produce of the produce of the proting of the produce of the produce of the produce of the proting of the produce of the produce of the produce of the proting of the proter of the produce of the produce of the produce of the produce

Abroand breast issue in the axilla. Aberrant breast tuses in the axilla has been the site of cancer in 3 to tan indication for operation unless a definite tumor can applied to the axilla mass becomes so large that it is troublesome. The axilla may be the site of scharcows and sweat fealan nodules.

also of the account of the automotive the age of the account of th

when a man comes under observation with an en largement of one breast of a few weeks duration, the whole area should he evised. If the tumor is beingn the patient and his physician should be in formed that the other breast will enlarge also but should be left alone.

Diffuse urginal hypertrophy This condition may produce an infiltration beneath the corium of lobules of the breast parenchyma

Changes as the breast resulting from atrophy after leastston. When the patient with atrophic changes is in the proper position for inspection and palpation of the breast that is rechining on her back with her arms over her head the imples fall into a depression in the hireast like a crater and the areola and skin around the implie are thrown into wrinkles. This finding is not a sign of cancer. The depression usu ally disappears when the woman sits up or places her arms at her asdes when she is slying down.

Skin lessons of the areals and the skin over the breast Skin lessons of the breast should be treated in the same way as skin lessons elsewhere Elevated pig mented moles and warrs should be removed. As skin metastasis may be the first evidence of breast can cer all subcutaneous nodules should be removed and sectioned.

In conclusion the author gives a detailed description of the technique of evamining the breast
PAUL W SWEET, M D

Charteris A A On the Changes in the Mammary Gland Preceding Carcinoma J Path & Bac teriol 1930 XXXII 101

Charteris made a histological study of forty eight breasts removed by operation on account of car einoma Forty one of the breasts were involved also by so called ejstie mastitis In thrity one of the forty eight cases the malignant growth was believed to have arises from the ducts

It was found that all grades of epithelial hyper plasta may be present in the ducts and acini The earlier stages are usually to be seen in association with chronic mastitis The process may result in the formation of papillomatous growths with a variable amount of stroma or in a more cellular and diffuse growth without stroma The more purely cellular hyperplasias may be traced through a series of progressive developments in which changes in the character of the cells at last become apparent No line of demarcation between the various stages can be made out the stages merge insensibly with each other until finally the ducts and acim are filled with cells indistinguishable histologically from can cer cells-intraduct carcinoma Ultimately these cells break through the duct wall and invade the tissues forming a cancerous tumor

These observations indicate that the onset of cancer in the breast is frequently the result of a long senes of prohierative changes occurring mainly in the duct epithelium and beginning as relatively simple lessons the study of which might give in formation of value in the prophylaxis of cancer

SURGERY OF THE CHEST

CHEST WALL AND BREAST

Bloodgood J C The Changing Clinical Picture of Leslons of the Breast Am J M Sc 1930 CIXXIX 27

Bloodgood states that women are now coming for examination for breast conditions earlier than for merly and he emphasizes that it is quite as impor tant for the diagnostician to tell when not to oper ate as when to operate According to Bloodgood a earlier records 80 per cent of breast diseases were malignant when the patient came for examination whereas according to his more recent records only 17 per cent were malignant when treatment was first sought and in 65 per cent of the cases of benign con ditions operation was not indicated. In former years it was minor diagnosis major surgery and minimal results Today it is major diagnosis minor surgery and maximal results

In considering the benign conditions of the breast for which operation is not indicated Bloodgood dis cusses (1) pain (2) painful scars (3) discharge from the numple (4) retraction of the numple (5) lesions of the nipple suggesting Paget's disease (6) the history of a disappearing tumor (7) tumors in women under twenty five years of age (8) tumors in women over twenty five years of age (9) tumors in the axilla aberrant breasts bpomata lymph gland involvements and lesions of the sebaceous and sweat glands (10) undateral hypertrophy (11) diffuse vir ginal hypertrophy (12) changes in the breast result ing from atrophy after lactation and (13) skin lesions of the areola and the skin over the breast

Pain Pain is a more frequent symptom of the on set of a benign tumor than of the onset of a malig nant tumor This is probably due to the fact that it is more frequent in the breasts of women in the age limits of benign lesions and less frequent in those of women at the cancer age Pain and tenderness are of no value in the differential diagnosis of breast lesions. The author has never found a malignant tumor of the breast in a woman who sought examina

tion on account of pain only

Poinful scar at the site of an operation A painful scar is not a sign of recurrence of the disease for which the operation was performed. A scar should never be excised for pain only If the patient is reheved of the fear of cancer she readily tolerates the

pain Discharge from the nippie No matter what the character of such a discharge may be it is not a sign of cancer The most frequent cause of a discharge from the supple is a papilloma in a duct. The dis charge produced by a papilloma is harmorrhagic of serous The author's records reveal no case of cancer of the breast developing in a papillomatous cust

Retraction of the nipple Intermittent retraction of the nipple is a sign of chronic cystic mastitis or shotty breast rather than of malignance but in a case of recent retraction cancer must be suspected whether a lump can be felt or not and the breast should be explored. The nearer a small palnoble lump to the nipple the less reliance can be placed on retraction of the nipple as a sign of cancer flow ever retraction of the nipple should be regarded as suggesting malignancy until cancer is positively ruled out

Lessons of the mipble suggesting Pagets disease Unless a positive diagno is of Paget's disease is made such lesions should be treated twice a day by cleansing them with soap water and alcohol and then covering the nipple with vaseline and gause If this treatment does not heal the irritation the lesions should be excised with the areola and breast tissue beneath and an examination made of fro en sections If malignancy is found the complete oper ation should be done

The history of a disappearing tumor It has now been established that except in cases of caked breast and factation mastitis, the history of a disappearing tumor is an indication of chronic cystic martitis

Tumors an women under tuerts he years of age The chief reasons for the removal of a tumor in or near the breast of a female under twenty years of age are the possibility that an aberrant adenoma may gron rapidly and that an intracanalicular mysoma may become a sarcoma after a certain enlargement has been reached After the twentieth year all pai pable tumors in or near the breast should be re moved fumors to and about the breasts of this dren are rate. If they are not d rectly in the breast it i safer to remove them on account of the danger of sarcoma in the young

Tumors in reomen over tuenty five years of age Of the breast conditions occurring after the twenty fifth year of age the author discusses the shotty breast dilated durts beneath the nipple the lumpy breast

and chronic existic mastitis

The shorty breast (diffuse papillary cystadenoma) as non considered a distinct clinical entity and a con dition in which operation is seldom indicated Shotty breasts are rarely large and are never of the latty type The condition is practically never seen after the menopau e As a rule it is bilateral. It may in solve a portion or all of the breast The parenchyma is distinct and filled with shotty masses There is a distinct edge like the edge of the liver and the breast may be lifted up like a saucer This type of breast is not as translucent as the fatty senile breast but con tains no dark areas

Dilated ducts beneath the nipple are found as a rule later in his than the shotty breast. The women

The results paralleled those in the living lung con using in a shortening and narrowing of the bronchi with deflation an elongation and possible narrowing with partial inflation, and a widening with more extensive inflation

The author also discusses the nervous mechanism of the bronch: His statements are based on an amlysis of the action potential of the sympathetic and vagus nerves of the turtle

RALPH B BETTMAN M D

Overholt R II Pendergrass E F , and Leopold S S Postoperative Pulmonary Atelectasts Report of an Unusual Case Surg Gynec & Obst 1930 1 45

In the case reported the most marked displace ment of the mediastinal structures toward the af fected side and the greatest elevation of the dia phragm occurred at a time when the density of the lung was very little increased and partial return of the mediastinal structures toward their normal posi tion occurred when the density of the middle and lower lobes bad reached the maximum

RALPH B BETTMAN M D

Martin B Experimentally Produced Pulmonary Embolism in the Dog Cinematographically Portrayed (Ueber experimentell erzeugte Lungen embolie bei Hunden durch kinematographische Aufnahmen festgehalten) Arch f klin Chir 19 9

la the experiments reported the femoral vein was esposed and then closed proximally hy a weak springed forceps and a thrombus was produced in it by the injection of liquor ferri sesquichloridi diluted one half with normal salt solution to which harrum sulphate had been added

The formation of the thrombus required about taenty seconds but before the mass could become adherent to the vessel walls from the action of the chlande of iron the way to the heart was opened by loosening the forceps The thrombus then became an embolus of the lung The process required from two to ten seconds and could be easily observed on the roentgen screen

In the region of the inferior vena cava the embolus proceeded slowly and continuously forward in some instances suffering a backward push with each clo sure of the tricuspid valve but after it had passed through the diaphragm its motion was accelerated as though it was pulled onward into the right heart la the right ventricle it was whirled about a few times broken up and then driven like a cloud of fine dust and in the fraction of a second into the branches of the pulmonary artery particularly those in the lower lobes The upper lobes remained practically free In two ms ances the tiny mass was held by the bgamentous strands of the right ventricle in one instance a non disintegrated bolus was observed and in the case of an animal which survived the embolism a moderate retrograde growth of the mass was seen

In forty two of the forty five dogs the embolism was fatal Only four of the animals survived longer than thirty hours. Five died within ten minutes Of the three which survived two were plainly "embolus sick ' with more or less irregular and spasmodic respiration and a fast and irregular pulse

Diminished respiratory surface in the lung does not account for death from embolism The chief factor is the cardiac disturbance. The right heart struggles against the unaccustomed resistance and in spite of increased exertions and in spite of the administration of camphor and strophanthin is

unable to overcome it

In the experiments reported the thrombus drew after it the equally roentgen opaque contrast me drum which had not yet become bardened into a

solid mass and was strung out behind

With regard to the conditions under which a thrombus becomes an embolus the author states that when there is complete closure of the lumen of the ve sel by a thrombus dislodgment of the mass hy the blood stream is not to be feared unless a powerful force drives the mass forward as a whole When the lumen is not completely blocked and the thrombus is only partially adherent to the vessel wall the danger of embolism is present A floating part of the thrombus is always broken loose when the mass develops forward over the site of anasto mosis of the vein with another yein so that it be comes involved in two currents

In the treatment of pulmonary embolism the heart should be strengthened venesection should be done to relieve the right heart and the respiration should be stimulated by the administration of car bon dioxide MAX BUDDE (Z)

Singer J J and Graham E A Clinic Demon strations 4rch Surg 1920 xix 1552

The authors discuss the cooperation between the medical and surgical services which has been the main feature in the development of their chest surgers They state that in large general hospitals patients in the medical wards are often not given the benefit of possible surgical help because of the lack

of such cooperation

Like many others Singer and Graham have found that even very large abscesses of the lung may be healed in time by merely postural drainage. They believe that as a rule the abscesses which respond readily to bronchoscopy are of the same type as those which heal with pulmonary drainage or respond to collapse therapy In acute cases they resort to surgery only after five or six weeks and only after postural drainage and pneumothorax have definitely failed Cautery lobectomy is reserved particularly for multiple chronic abscesses of the lung

The authors believe that bronchiectasis is becom ing less frequent. They state that they have very frequently noted a relationship between this condition and chronic infection of the nasal sinuses and have often found that when the nasal sinuses were

cleared up the symptoms diminished

They indicate also that the development of cancer in the breast is usually associated with certain proliferative changes occurring in the lactiferous ducts and to a lesser extent in the related acim which affect especially the lining epithelium and are almo t always accompanied by what is usually de scribed as chronic cystic mastitis

JOSEPH K NARAT M D

Pfahler G E and Parry L D Results of Rocat gen Therapy in Carcinoma of the Breast I in Il let 1930 xciv tol This report is based on 939 cases of carcinoms, of

the breast which were treated at least three years 920 The end results in cancer of the breast depend upon the type of the cancer the patient's age and resistance the extent of metastasis the stage and rapidits of the growth the regions invaded and the

length of time the symptoms were present before treatment was begun. The authors have found that grading of the tumor tissue is of little value in the

progno is Of the Q10 patients whose cases are reviewed 1 3 per cent were males and , 5 per cent were mar ried. The cancer involved the right breast in 46 per cent of the case, the left breast in 48 per cent and both breasts in 6 per cent. In 56 per cent at tention was first attracted to the breast by a fumr in o per cent by pain and in 14 per cent by an injury. The voungest patient wa sixteen year of age and the oldest eighty five years. Sixti four and four tenths per cent of the patients nere be tween thirty and fifty nive years old. The average length of time the symptoms had been present be fore the nationt applied for any kind of treatment was mneteen months

The authors believe that \ ray treatment should be given within two weeks after operation. They have found that it does not interfere with wound healing Since 1916 they have been recommending pre operative as well as postoperative irradiation For operable cases they advocate preliminary treat ment with from 80 to 90 per cent of the erathema dose during a period of two weeks followed by opera tion three days after the last irradiation. They give postoperative irradiation within from ten dais to two weeks after the operation in order that ans carcinoma cells left behind will be destroyed be to e their blood supply is re established voltage rays are used over the mammars region in order to avoid injury to the heart and lung Over the axilla the coracoid region and the supra classicular region high voltage rass are employed Twelve treatments are usually given in the hist series and the treatment is repeated after an in terval of from four to six weeks In moperable cases it is necessary to continue the treatment for from two to three months to obtain a certain fibrosi and encapsulation

Postoperative \ ray treatment was given in 242 of the authors cases Of 51 patients with an operable cancer in the early stages of per cent were free from symptoms at the end of three years and 80 per cent were free from symptoms at the end of five years Of 99 patients who came for treatment in a late operable condition with involvement of gland 61 per cent were free from symptoms after three years and 47 per cent after five years

In reviewing statistical reports as to the results of surgers and stradiation in carcinoma of the breast the authors found that in cases without palpable glands a five year cure was obtained by surgery alone in 77 per cent of the case and by surgery combined with irradiation in 74 per cent. Their own records show that the combined method it

suited in recovery in 89 per cent in the authors 404 cases of recurrent carcinoma treated by arradiation the incidence of five year

cure was 18 per cent

Of 156 patients treated for primary inoperable Carrinoma hive or more years ago 16 per cent are

Of 39 cases of primary operable carcinoma in which the diagnosis was definite a five year to

covers was obtained in 87 per cent The authors conclude tha statistics do not justify the replacement of operation by primary irradia tion but that operation should be supplemented by irradiation in all cases ALTON OCHENER MID

TRACHEA LUNGS AND PLEURA

Francis B F Chances in the Shape and Size of the Tracheobtonchial Tree Following Stimu lation of the Vagosympathetic Verve Arch Sure 1029 XX 1 7

In experiments on dogs and cats carried out with a technique similar to that used by Heinbecker Francis found that stimulation of the vagousm pathetic nerve results in a slight but definite decrease in the diameter of the tracheobronchial tree

RALDII B BETTMAN M D

Heinbecker P Caliber Changes in the Bronchi in Normal Respiration trek burg to 9 xiz 1574

The changes in the caliber of the bronch during normal respiration were studied in five human subjects and three animals

In the human subjects the observations were made after the instillation of 40 per cent indized oil into the bronchist tree Roentgenograms nere made at a bred distance and at definite stages of the re spiratory cycle

The roentgenograms showed that the bronch and bronchioles are widest at the end of full inspiration and narrowest at the end of full expiration breathing the changes in tainber are slight. In some of the long broacht particularly the e to the lyeer labe a narrowing occurs during the first part of inspiration

In experiments on recently killed animal the changes in the thorax occurring during the usual re piratory cycle could be reproduced mechanically

by means of a rubber halloon placed in the medias, tunn The consequences of such increased pressure see local and vaned directly with the extent to tach the balloon was inflated and the position it occupied in the mediastinum. The initial change in the blood pressure following the impection of air into the rubber halloon was always a fall. The antenor mediastinum was considered to be in front of the not of the lung and the posterior mediastinum be had the root of the lung.

Compression of the large blood vessels occurs made no make the made of the large blood vessels of the rachea or butch. So the consequences of increased made no made n

Mediasinal emphysema was produced directly by vanous means including the direct injection of a size to the mediastinum and the production of a luched fistula. The air causing the emphysema follars the normal fascial planes particularly the sheaths which surround blood vessels. It may extend also retropentoneally, outline the kidneys and compress the renal vessels. Large amounts of blood may become stagnant in the lung without producing marked pressure changes in the circulation.

The direct njection of frequent small amounts of are into the mediastinum caused a fall in the blood pressure and an increase in the respiratory rate. The blood pressure soon returned to normal if the injections were not repeated too frequently. In the venous pressure only gradual mess and falls were observed. These followed no definite rule. Transitory terminal rises in the venous pressure concomitant with the fall in the actival pressure were noted.

The effects of the injection of mixtures of paraflin and indized oil which solidified were also determined Jacob W. Mora, M.D.

Duguld J B and Kennedy A M Oat Cell Tumors of the Mediastinal Glands J Path & Bacteriol 1930 xxxii 93

After citing Barnard's theory that the "oat cell sarcoma of the posterior mediastimum is a medul lary carcinoma of the bronchus the authors report a tumor of the thy mus and a tumor of the mediastinal homph glands both of which showed oat cell features. They conclude that oat cell forms in a mediastinal tumor are not always indications of bronchalo origin.

In the surgical treatment of tuberculosis Singer and Graham are in the habit of removing larger sections of the ribs than is usually advised

A case of cardiolysis for chronic mediastinal pencarditis is reported.

The results obtained in chronic pulmonary suppuration treated by cautery purumectomy are shown in the following table

CHRONIC PULMONARY SUPPURATION TREATED BY CAUTERY PNEUMECTOMY ho %

Cases		
	54	
Definite improvement	36	65
Moderate improvement	33	
Slight improvement		3
No improvement	3	5
The Haplayettens	7	13
Death's (operative mortality)	6	11
Late results		
Cases		
Patients still alive (all at work)	34	
Definite improvement	35	66
Dennite improvement	34	63
Moderate improvement	1	i
Slight improvement	۰	
No improvement		r
Deaths (operative mortality)	- 2	11
Late deaths not directly due to operation	. •	
Date deaths and directly due to operation	12	22
Bronchial fistula still present	17	47
RALPH B DETTM	in 12	47 D

ESOPHAGUS AND MEDIASTINUM

Andrus W DeW and Donnelly J L. The Effects of Certain Operations on the Geophagus of the Dog Including Geophagus Obstruction and Complete (Esophageal Fistula Arch Surg

All of the operations reviewed were performed under ether anæsthesia after the preliminary hypo dermic administration of 1/4 gr (0 or6 gm) of morphine sulphate The morphine caused emesis and purging Samples of blood were drawn before and at intervals after the operation and determina tions of the blood chlorides the carbon dioxide combining power of the plasma the blood urea mtrogen and in some cases the blood sugar were made In some of the experiments the rectal temperature was taken before the operation and daily thereafter All of the dogs were kept in cages and at fir t the amount of urine and faces excreted was recorded The excreta were scanty however and after care ful measurement and analysis in a few cases further collection was abandoned as the data obtained were not significant. A series of animals were weighed before operation and after death and the loss of weight was noted At necropsy all animals were distarded from the series in which an obvious cause of death other than resophageal obstruction such as empyema pneumonia or mediastinitis was dem

In order to make the operations similar in as many cases as possible the following procedure was used in most instances

An ordinary mooden spool was whittled into an hour glass shape and the hole through the middle enlarged to permit the insertion of a thin walled mekel tube about 1 cm in diameter This tube projected for a distance of about r in from the lower end of the spool To produce obstruction the hole in the spool was plugged with wood and to produce an esophageal fistula a soft walled rub ber tube of large caliber was attached to the nickel tube projecting from the spool and brought out through a tangential gastrostomy opening. In the cases of other dogs which were subjected to opera tion, of practically the same magnitude as those with observetion and fistula the spool with the short mokel tube inserted was ligated in the esoph agus so that it did not prevent the passage of saliva into the stomach

The striking result of these experiments as that the dogs unvariably died following the sudden and complete obstruction of the excepbargus and following the production of an excepbargus and following the production of an exceptaged fixtual without the subsequent administration of fluids. The case of death under such circumstances is not clear blade dehydration may play a rôle at its not the sole agent as its evidenced by the fact that summis can live for thirty days or more when food and water that the substantial of the control of the substantial of the control of the substantial of the terminal rises in the temperature usually noted in animals dying from dehydration from dehydration.

The studies of the changes in the chemical composition of the blood in this series indicated a tendency toward a decrease in the carbon disorder combining power of the plasma and in the chlorides of the blood in some animal—but these changes were not constant. In a few instances the blood area introger showed a terminal time. The sex size that time of this following the production of an evaphaged fistula and without the administration of fluids was several; three boars. One animal lived for su days

The authors have been unable materially to in crease the duration of hit of animals with exoph ageal obstruction by the administration of sodium chloride or of sodium chloride and sodium bicar

The fact that the animals with exophageal fixible died almost as soon as those with exophageal of struction and apparently in a similar mainer size gests that the loss of saliva may play an important role in the lethal outcome. Studies are now being made with regard to this problem.

JORY J MALONEY M D

Ballon H G and Francis B F The Conse quences of Variations in Mediastinal Pressure Mediastinal and Subcutaneous Emphysema Arch Surg 1919 313 1627

Practically all of the forty experiments reported in the article were performed on rabbits because the mediastinium of the rabbit is best fitted for such in vestigations. The effects of a sudden confined in crease in the mediastinal pressure were determined days after the operation of acute hæmorrhage from a large duodenal ulcer The ulcer was discovered at sutopsy Autopsy revealed also a gall stone com pletely obstructing the lumen of the common duct and a pancreatic stone partially obstructing the main pancieatic duct. The formation of the ulcer was attributed to the interference with the discharge of alkaline pancreatic juice and hile into the duo

Attention is called to the formation of identically smilar ulcers in dogs following surgical duodenal dranage an experimental procedure which diverts the pancreatic time and the hile from the region of the pylorus CARL R STEINE M D

Eggers H The Origin of Gastric Ulcer and the Problem of Ita Treatment (Ueber die Entstehung des Magengeschwueres und das Probleme seiner Behandlune) Abhandlungen Nuerzburg 1929 1117 L41

The author begins his discussion with a review of the various theories as to the origin of gastric ulcer He bases this review on the development of the surg ral treatment of the lesson as each new theory of ulter genesis has been reflected in new therapeutic mer ures

It is now generally believed that the formation of a gastne ulcer can occur only as the result of circula ton disturbances in the stomach wall The exclusion of a sharply circumscribed portion of the blood sup ph explains the origin of the acute lesion and its characteristic form Hauser concluded from his care I lps hologico anatomical studies that gastric ulcer ares chiefly from the red infarct, and that this in larct formation is due in turn to occlusion of an artery in the stomach wall from local or reflex initation of the vasomotor pervous system attend o clasion may or may not be accompanied by dispedesis in the capillary area depending upon the inten ity of the irritation The persisting stasis results in a red infarct leading to necrosis which in volves the mucosa alone or with the submucosa or the entire stomach wall depending upon the site of the arterial obstruction An ulcer is produced by sep atation of the necrotic tissue. The role of the gastric Juce in digesting the necrotic tissue is of a secondary

Local irritation may be caused by thermal chem ical or mechanical factors Indirect reflex irritation is also possible Ricker states that there is nothing to disprove the assumption that stasis and diapedesis in the stomach may result from psychic disturbances The objection might be raised that all of the types of irntation mentioned occur very frequently in all per sons and yet not all persons develop a gastric ulcer In reply it may he said that the irritability of the nervous system varies greatly not only in different persons but also from time to time in the same per

The author is of the opinion that this general regulative neurosis or the local neurosis of the stom ach represents the constitutional peculiarity which

renders the origin of ulcer possible. It may be con genital or acquired According to the view of Ricker all ulcer symptoms -hypermotility hypersecretion a tendency toward hæmorrhage a change in the hy drogen ion concentration, and finally gastritis-are closely related to one another and no one of them may in any way be considered the cause of the ulcer

According to the intensity of the irritation the extent of the irritated area and the local irritability of the vascular nervous system a solitary ulcer mul

tiple ulcers or gastritts develops Causal therapy must be directed toward the vascu lar nervous system As surgical procedures on the nervous system have failed to give worthwhile re sults the attempt must be made with the aid of in ternal medicine to change the tone of the nervous system particularly the vascular nervous system of the stomach. Two methods are available viz. the use of drugs chiefly parenteral foreign protein thera py and the use of diet. The author is of the opinion that it is possible by these methods not only to heal the ulcer but also to remove the constitutional pre disposition toward ulcer development surgery should be employed only when medical treatment fails. Absolute indications for operation are acute perforation complete cicatricial stenosis of the pylorus and callous ulcer in which a cancer may be concealed. These indications are definite and are excluded from the discussion The author deals only with the question as to whether the surgeon may expect good results from the available methods of oper ation in other forms of ulcer disease

· Gastro enterostomy Eggers states that it is very doubtful whether a change in gastric function may be attained by gastro enterostomy at most, it is possi ble only that the more rapid emptying of the stomach may relieve some of the local irritation. Moreover the permanent results are not satisfactory While the older surgeons who operated according to limited indications reported the incidence of cure as high as 85 per cent the incidence of permanent cure has fallen alarmingly low since the indications have been increased Floercken gives it as 58 per cent and Hedlund as 30 per cent The last Rostock statistics showed a permanent cure in only 40 5 per cent of cases and complete failure in 35 8 per cent Von Haberer reports the incidence of failure at from 20 to 40 per cent Gastro enterostomy cannot keep an ulcer from becoming callous and does not protect against perforation or failure to diagnose a carci noma Finally experience teaches that peptic ulcer of the jejunum develops in 89 per cent of cases treated by gastro enterostomy hut in only 1 per cent of cases treated by resection. All of these dis advantages have led most surgeons to prefer resection

2 Resection The advantages of resection are that it removes not only the ulcer itself but also the en tire diseased portion of the stomach and in this way tends to prevent recurrence However it is not to be regarded as a true causal therapy In removing the diseased organ it prevents the possibility of a restor

SURGERY OF THE ABDOMEN

ABDOMINAL WALL AND PERITONEUM

Donald C Strangulated Internal Hernia in a Retro Appendicular Paracæcal Pouch Brit I Su g 1930 TH 462

A man fifty seven years of age developed symp toms of severe obstruction of the small intestine accompanied by a palpable indefinite fump in the right that fossa

At operation an internal herma containing in carcerated ileum was found. The hermal ponch which measured to by g cm lay to the inner side of the ascending colon just above the ileocarcal junction and external to the line of attachment of the mesentery proper. Its outer boundary was formed by the ascending colon which was fused to the posterior abdominal wall and its anterior wall was formed by the me entery of the sleocolic junc tion with the appendix fused to it on its under or posterior surface. The opening which was 1 5 cm in diameter was located just behind and hightly to the inner side of the cocum. The cocum had un usual mobility

The author states that this hernial pouch was due to fadure of fusion of the ascending mesocolon with the parietal peritoneum in the terminal stage of rotation of the gut probably caused by the position of the appendix JOHN H WOOLSEN M D

GASTRO INTESTINAL TRACT

Clasen A G Gastro Intestinal Manifestations in Syphilis im J Syphilis 1930 xis Sa

Clasen reports ten cases of syphilis in which the chief symptoms were referable to the gastro in testinal tract and emphasizes the importance of looking for syphilis in the cases of patients present ing gastric symptoms which do not yield to the ordinary routine treatment for the secretory dis turbances He states that syphilis is frequently overlooked because it is not suspected

The clinical picture of gastric neurosyphib is often difficult to differentiate from that of true gastric suphilis The gross gastric lesion of a syphilide of the stomach in both the hereditary and the ac quired form may be any one of the tollowing

t Gastritis This develops in all stages of suphi

hs including the early secondary stage 2 A circumscribed new growth the gumma

3 Diffuse gummatous infiltration and hyper plasta with the Leming of the wall of all or a part of the stomach and the pylone antrum This form be cins in the submucosa and extends to the mucosa and muscularis

4 Gummatous plaques on the mucous surface Ulcers are generally multiple They often extend upward along the lesser curvature and involve the greater curvature also to some degree The fibrous may be so pronounced as to form a callous ulter The ulcer may be the result of an obliterating endar Fibrous changes such as scars may lead to stenosis when they involve the pylorus They may also cause necrosis

5 Gastric deformity such as shrinkage of the stomach from gummatous infiltration or fibrous

hyperpla 12 Except in the aorta and liver syphilitic lesions can be identified only during the active stages of the

miertion In syphilis of the stomach profuse hamorrhage perforation and fistula formation are rater than in cases of benign ulcer but hyperplastic chronic pen gastritis is more common. In 50 per cent of cases of tabes acute bleeding from the stomach is due to an ulcer rather than the tabes

Cases may be classified according to symptoms as follows (r) those suggesting gastric ulcer () those suggesting gastritis and achlorhydria (3) those of the diffuse fibrosis or sciribous carcinoma type (4) those showing retention and duodenal ulrer de formity and (5) those with functional disturbances

occurring as gastric crises

In true organic syphilis of the stomach the blood Wassermann test is generally positive but gasine symptoms may be present in neurosyphilis in which the blood and spinal fluid Wassermann tests are negative In a large percentage of cases of gastric syphilis there are no positive mentgenographic find ings indicative of syphili When an ulcer is present it is almost invariably detected

A positive hi tory in addition to positive broad and spinal fluid reactions other signs of sightly and gastric manifestations with corroborative toers genographic findings in the case of a patient between there's and forty five years of age must be considered presumptive evidence of gastric s) phile

The treatment for syphilis underlying a gastric complaint must be directed according to the ind ta tions in the particular case Very frequently treat ment is followed by functional and their al recovery manufested by a change in the audity values

MORR S H LARY MD

Morton C B and Graham J B Observations on Peptic lilcer 4nn Surg 1930 xci 73

In a case reported by the authors the history led to an operation for disease of the gall bladder The appendit and gall bladder were excited multiple stones were removed from the common bile duct and a tholedochotomy was performed. The e was no pulpable or visible evidence of ulceration of the stomach or duodenum The patient died twenty four

valve tumors angiomata myomata and multiple polyposis The ball valve tumors which are pedisculated and attached near the pylorus tend top olapse through the pylorus 10to the duodenum They often cause obstruction, and in the roentgen ogram may suggest a duodenal tumor

The symptoms of benign tumors of the stomach are varied. They must be differentiated from those of carcinoma ulcer, gastritis pernicious anamia and

functional dyspepsia

The roentgen signs depend upon the size, shape location and number of the tumors. Among the p scepal findings are a filling defect with a smooth contour which is usually central, round or oval and sharply outlined and peristalsis passing through the gastric walls in the region of the defect. The gastric wall in the region of the tumor is flexible. The delect itself is frequently movable. A pedicle may be demonstrated If the tumor prolapses through the pilirus the defect may appear in the duodensi bulb. The lamen of the stomach is not decreased Pyloric obs suction with a six hour residue may be present la cases of polyposis the barium shadow may show numerous defects suggesting the holes in a sponge la cases of hypertrophied gastric murosa the defects mas appear as ridges of an exaggerated type. The

nga above and around the tumor may be unaffected In looking for beoign lesions of the stomach it is of prime importance to use only a small amount of barum and to manipulate the stomach by pressure

WILBUR BALLEY M D.

to bring out the defects

Morice Three Cases of Occlusion of the Intestine by a Biliary Stone (Trois cas d orclusion intestinale par calcul biliaire) Bull et mire Soc not de cher 1919 ly 1187

The first case reported was that of a woman who entered the hospital with a history of violent colics frequent vomiting and oliguria for four days during which t me there had been no passage of feces or gas

Per pulse was 120 and small

At operation performed under spinal anæsthesia the small intestine was found to be extremely dis lerded and dark red and to contain two stones each the size of half a lemon One of the stones was about im from the deocarcal valve and the other about 20 em farther dono The stones were removed through longitudinal incisions made between clamps After their removal the intestinal contents were allowed to how out and the intestire was washed with phys tological salt solution The openings were then sutured The two stones placed tog-ther formed

what was undoubtedly a cast of the gall bladder The patient suffered slight shock but soon after the eperation gas and a stool were passed. On the eighth day generalized peritonitis developed and on

the tenth day death occurred

At autopsy the peritoneal cavity was found to contain a sellowish liquid composed largely of bile The intestinal wounds were perfectly cicatrized. The fluid was mo t abundant in the right hypochondrium Both the gall bladder and the duodenal bulh were

perforated Motice believes that the enormous stone was passed into the intestine in two fragments as the result of a spontaneous cholecustoduodenostomy, and that the fulminating nature of the peritoritis was due to the absence of adhesions in this region

The second case reported was that of a woman nity five years of age who had suffered for forty eight hours from incessant vomiting, colics, and obsuma. At the time of examination at the ho-nital the abdomen was distended the pulse 110 and the temperature 38 degrees F As the patient was fat, intestinal peristalsis was difficult to perceive. The pains on palpation appeared to be localized about the umbilious The patient stated that about twenty years previously she had had hepatic colics with jaundice After the possibility of occlusion due to a ncoplasm bad been eliminated, a diagnosis of biliary ileus was considered because of the earlier hepatic colic, the presence of a dull and persistent pain under the liver and slight dyspeptic disturbances

At operation performed under spinal anasthesia the small intestine was found extremely distended and a bihary calculus the size of a large nut was dis covered about 1 5 m from the duodenojejunal angle An ela tic clamp was placed below the obstruction and the stone removed through a longitudinal in cision After expression of the contents of the intestine and lavage of the bowel with 2 liters of

physiological salt solution the locision was sutured The operative results were excellent the patient leaving the hospital on the twenty second day However thirty five days after the operation she was brought back suffering severe pain in the abdomen especially in the region of the kidneys. Her face was of a leaden color and covered with cold aweat. Her extremities were cold, and her pulse so small that it could not be counted Laparotomy revealed a hæmorrhagic pancreatitis with extensive lesions and with spots over the entire peritoneum. Drains were placed in the pancreas but death occurred that

The third case was that of a nomao aged forts eight years who was taken suddenly with a digestive di turbance accompanied by pain in the right hyporhondrum nausea and diarrhora which lasted two days After this attack she was well for two days except that she had no appetite. On the third day she experienced a violent attack of colic accompanied by nausea On the fourth day he comited and her abdomen was hard and slightly distended No stools had been pas ed for four days The vomiting became more frequent However, one day it stopped and a fixed stool was passed. The next day it recurred and no nourishment could be taken. On the tenth day after the first attack the patient was brought to the hospital in an apparently moribund condition

As the pain was most severe in the right iliac fossa a right lateral laparotomy was done under local anxisthesia A biliary calculus the size of a small mandann orange was found about r m from the sleoczcal valve Over it the intestinal wall was thin and dark red. A longitudinal incision about 5 cm. in aton to normal Moreover the good early results may not endure. This operation may also be followed by peptic ulcer of the jumin. To prevent peptic ulcer of the jumin with many the removal of from two thirds to three fourths of the removal of from two thirds to three fourths of the ach has been advised. Undoubtedly this producer a stomach that is too small. Final judgment as to the out results of rescent on its not expense to the results of rescent on its not expense to the results of rescent on its not expense to the results of rescent on its not expense to the results of rescent on its not expense to the results of the operation.

In conclusion the author emphasizes again that operation should be considered only after halfer of thorough medical management. He objects to an documinate extensive resections of the stomach in cases without definite findings and without adequate previous medical treatment. He emphasizes that the chief essential in the treatment of gistric ulcer is cooperation between the internat; and surgeon

ZHANER (/)

Judine S The Treatment of Perforated Ulcers of the Stomach and Duodenum (A propos du tratiement des ulcères perforts de l'estomac et du

dudecoun). Bull of mim Soc not de chir 1929 is 1733.

Judha reports upon 195 case of perforated ulcer of the stomach and dudedoum which were treated in the Central Hospital for b rangeory Surgery at Moscon during a peniod of toy and a ball year. On the hass of the treatment, he divides the cases into 2 groupps—122 which were treated in the first three and a half years and 22 which were treated during, the last year of the peniod under considera

In the first group there were only 2 cases of ulcer in nomen. The ulcer was in the duodenum and pylorus in ros cases and in the stomach in 21. There was I cale of gastrojejunal ulcer Judine states that as suture of a perforated other in the region of the pylorus or in the duodenum is an evitably followed by stricture the operation must In the be supplemented by gastro enterostomy first group of cases gastro enterostomy was done 117 times and resection according to the Billroth II method once Suture alone was done in only 2 cases and dramage alone only in the cases of 3 patients who were mornbund. The general mortality was 24 4 per cent and was directly related to the length of time that elapsed between the perforation and the operation. In the cases operated upon in the first six hours after the perforation the mortality was 5 5 per cent in those operated upon between the sixth and muth hours it was 20 per cent in those operated upon between the muth and twelfth hours it was 40 per cent and in those operated upon more than two days after the perforation it was 100 per cent

In 30 autopoles multiple ulcers were found 7

The end results were determined in 48 cases. Only 25 of the patients were completely cured. Fifteen complained of di spepus and 8 of quite severe pains.

and comiting Therefore in 20 per cent of the cases gastro enterostom; gave poor results

When the operation was performed under spinal anarsthesia the mortality of gastro enterostomy was from 15 to 2 per cent and that of resection 7 to 10 deaths per 100 cases. Since Judine has used splanch

necauses them has results have been much improved In many cases of perforated ulter there is historic of wheer hat in one fourth of the catheria historic perforation was, the first indicates of the read use Absence of hepatic dullness is found in 10 per cote of the cases but is not a dependable sign a distort tion of the color by gas may simulate pneumona toneum Romagnengraphy may include the day noss. The author cites 2 cases in which an error in duagnoss was made

The second group of cases reviewed by Judine in cluded 35 of vicer of the duodenum 7 of vicer of the pylorus 26 of vicer of the stomach and 4 of gas

trojejunal ulcer

In 38 of the 35 cases of alert of the dandenum resection was done with a deaths and in 1 sustree and rastro-entero comy with a deaths In the reserved ulter of the polyout resection was done two with death and gravity enterostomy. I time also with it death and gravity enterostomy. I time also with it eath. In the of cases of there of the stomach resection was done if times with 3 deaths such a with very alone 1 times with 3 deaths such a with the alone 2 times (patients in settemal) with 3 deaths. In the 4 cases of gravious under these were 1 recoveree and 1 death.

The mortality of the 47 resections was ray per cent and that of 18 gastro-enternstomies 38 per cent. However the gastro-enternstomies were done in advanced cases and those of aged patients. Judine cuts the ray per cent mortality of resection in half by attributing 3 of the deaths to accidents uncreated.

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DYNAL who read Judge a report before the Soc
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storage garacteromy is the method of choice.

ACE

Rigler L & Roentgenological Observations on Benign Tumors of the Stomach & Surf 1930 vm 144

Benign tumors of the stomach produce as improve of marked severity and may undergo management despends to be probable that many gastric car cinomata of the polypoid type originated in a benign tumor.

Benigo tumors of the stomach hay be classifed pathologically as multiple polybox angomata myomata fibromata papillomata polyp, fibromyomata cysts and hypertrophied mucos. From the clinical and rosen genological points of view they may be classified more simply as polyps ball

The dismvagination should he brought about not by traction but by gentle pressure of the head of the invagination over the invaginating loop Trac tion is not to cause rupture. When reduction is complete and there are no necrotic lesions the intestine hould be sutured in the normal position to prevent recurrence In the authors opinion appendectomy should not be performed as it increases the distur bance of motility caused by the invagination To present intoxication the intestine should be rapidly exacuated of the stagnated contents The authors have employed various methods of stimulating motility including the use of hypophysin and eserin and the injection into the intestine of 20 gm of

castor oil before the abdominal wall is closed In the postoperative care it is important to stimu hte the defense keep the patient warm strengthen the pulse and keep up diuresis. Hypertonic salt solution is valuable in combating the intoxication is its intravenous administration is difficult in joung children the authors give it intramuscularly or by rectum AUDREY G MORGAN M D

Gueullette R Biliary fleus and Double Stenosis of the Small Intestine Enterectomy Recovery (lleus biliaire et double sténose du grêle entérec tomie guenson) Bull et mem Soc nat de chir 1929 ly 1190

Gueullette reports the ease of a woman fifty years of age who entered the hospital on account of ah dominal pains which had begun three weeks pre yously At first the pains were vague but they grad ually became more severe and ultimately became localized in the right iliac region. They were associ ated with constipation and mild digestive disturb

ances Vomiting had not occurred

On examination the abdomen was found slightly tympanitic, but its walls were flexible. The temper ature was 37 o degrees C Two days later, following a spontaneous stool the pain gradually ceased and the temperature returned to normal

At operation performed under general anæsthesia two strictures of the small intestine were discovered One was about 30 cm from the ileocarcal valve and the other in a loop absolutely free from adhesions about 15 cm farther down In the dilated portion of the intestine between the strictures the wall of which was greatly thickened two stones were found 1 24 cm portion of the intestine was resected and continuity re established by end to end anastomosis Recovery resulted

The stones were of the size of large beans and showed peripheral stratification Chemical and roent gen examinations proved them to be of biliary on En The strictures were the result of mild chronic inflammation

SAUVE who read Gueullette's report to the Soci ety cited a similar case that of a woman fifty years of age upon whom he performed an enterotomy A resulting fistula led him to doubt the wisdom of thoosing enterotomy to enterectomy, but the patient ultimately recovered completely

ROUX BERGER also reported a case in which en terotomy for the removal of two stones was followed hy recovery A few days after the operation the patient passed a smaller calculus through the anus

MONDOR presented a roentgenogram of biliary ileus but stated that he was undecided as to whether the ingestion of barium is harmful or not in cases of occlusion

Brocy Brodin and Aimé A Case of Biliary Heus in Which Roentgen Examination Revealed Fifteen Days Before the Symptoms of Oc clusion a Calculus That Had Become Impacted in the Duodenum After Cholecystoduodenal Perforation (Un cas dileus biliaire examen ra diologique avant réveté quinze jours avant l'appari tion des accidents d'occlusion l'existence du calcul enclavé dans le duodenum après perforation chole cystoduodénale) Bull et mem Soc not de chir .

The case reported was that of a woman fifty years of age who had been having attacks of what she described as a gastric disturbance for twenty four vears She had borne seven children In 1001 three or four months after the birth of her first child she experienced an attack of severe abdominal pain which lasted for an hour and every year since then she had had a similar attack. In 10 7 the attack was more severe heing accompanied by vomiting and leaving a sensation of agreness for several days

1020 ls 1104

In April 1929 the patient was taken at about to p m with very violent pain in the epigastrium ae companied by vomiting which continued until about midnight. The next day it recurred and persisted until 4 pm when it yielded to a hypnotic. The patient then remained in hed for eight days. During that time she was comfortable but the pain recurred when she attempted to resume active life

When she entered the hospital she weighed only 4 kem although her beight was 1 36 m. The pulse was 100 Abdominal palpation in the recumbent position revealed fullness of the right flank independent of the liver appendix and kidney and palpation in the unright position disclosed sensitiveness a little below and to the right of the umbilicus Roent genoscopy showed the stomach to be normal but the passage of the bismuth into the duodenum revealed a very peculiar bulb with no power of contraction. The barrum salt did not fill the bulb uniformly but seemed to infiltrate at its peripher, without im pregnating the central portion. There seemed to be a diverticulum in the descending portion of the duodenum

Brocq concluded that a stone had become lodged in the duodenum after the formation of a cholecy sto duodenal fistula As the patient refused operation, she was kept under observation on a lactovegetarian diet and at complete rest She gained 2 kgm but after fifteen days she suddenly experienced a very violent abdominal pain which was different from the preceding attacks and was accompanied by ahundant *omiting

length was made the stone extracted and the laquel above the six of obstruction was exacuated. Alter of physiological salt solution was the passed into the intestine. After the operation because the intestine after the operation because when the constitution caffeine and complosted oil were given. Recover, was uninterrupted. The patient left the hospital on the twents fifth day and has remained nell.

McWatters R C Volvulus of the Small Intestine Indian Med Cas 1930 lev 9

In Europe volvulus of the small intertane is comparatively rare but in India it is quite common. It has no distinctive as imptoms by which it can be distinguished from other types of obstruction of the small intestine. Frequently the patient states that the has eaten some course indignetable food such as bran or has strained at work or at stool. The onset is a unliv sudden and the patient severe. The deep of torsion varies great! In a few cases congestion may be extreme and gangree may be present but more commonly, the congestion is no greater than in other forms of obstruction the twint being only enough to obstruct the bowed without greatly interfering with the circulation.

When the parts are fully exposed the excum and the lowest part of the small intestine are found to be empty and if a finger is made to follow the empty coil upward it winds around the left edge of the twisted mesentery and becomes lost to sight. In the milder cases the parts are so loo e that it is difficult to believe that a volvulus is present but when the empty bowel is traced upward it is found to be con tinuous with the distended howel above and when the whole mass is rotated in a clockwise direction the empty ileum and excum become filled. These ob servations and the recovery which a ually results confirm the diagnosis but unless the nature of the obstruction is recognized by the manipulations de scribed it is quite possible to reduce the coloulus without knowing it and to waste valuable time in searching for an obstruction which no longer exists

scarching for an obstruction which ho longer custs. In Europe recover, from acute obstruction which is not merels an episode in a case of chronic obstruction is extremely rare without operation but in India about one in eight of the patients who ie fuse operation and are treated by repeated high enemata are relieved although sometimes not until as maps, as four chemata have been given.

MORRIS H LAW, WD

De Efizaide P Vergnolle VI J and Moreno VI R Intestinal Invagination in the Infant (Invagnación intestinal en el lactant) Semona méd 1020 INVI 1239

It is not particularly hard for a specially to diagnose intestinal tensional but the picture is not very well known to general practitioners and it is safe to say that the majornis of deaths from the condition are due to delay in the diagnosis. The frequency of delayed diagnosis is due to the fact that the testbooks do not describe the unitial symptoms.

Intestinal invagination of infants occurs most frequently in the first year of life. Its maximum incidence is between the fifth and ninth months The earliest symptom is pain. This is accompanied by a characteristic change in the facial expression Unlike the child with cerebral intoxication the child with intestinal invagination is at first active men talls A little later, as the intorication progresse he becomes indifferent. When the indifference comes on too soon to be explained by intoxication it is probable due to inhibition from the pain Terrioneal factes may develop early the authors saw it in one case at the eleventh hour Craing may be continuous or parovi smal As a rule infants with invagination do not cry much but they may be very restless and generally they do not sleep. If they fall asleep at all they toss about constantly Comiting may occur from the heginning. When it persists and becomes buliary it indicates into rication or peritorit a

The pube rate may decrease for the first it moments but soon become rapid. The re prints pate more soon become rapid. The re prints pate increases and sometimes there is party small despute a Ment copous it orns agricultured the abdomen may be flabby and acaphoid otherwise till normal Discherion and it pumpas are sups of personnel of the sound of the sou

evacuation of blood are later signs

If the condition is not treated stupor dehidration tympany biliary or bloody similing fever and putno exacustions result and the tumor appears at the anus. The terminal symptoms are facelyid comiting anima peritoneal faces convolutions and comit

The authors report a number of cases illustrative of the differential diagnosis from acute infections acute appendicutes and intestinal spasm

The prognosis depends upon the type of the

The mortal ty to 5 3 per cent in invagination of the colon 119 per cent in ileocacal invagination to per cent in ileocacie invagination and 80 per cent in ileocacie invagination.

The macroscopic and microscopic changes in the intestine are cretema enlargement of the mescateric glands and degenerative changes in the cell in short the change brought about by interference and the creditation.

The treatment should be early operation Operation should be performed under general anasyletis. Chlorotorm is well tolerated. Either is more disner use to the funcy of young children. The author prefer a median incision below the unbild on the some surgeons, recommend as much the intesting some surgeons. From the single the intesting the state of the single single

Jansen states that neutralization of the gastric puxeun the duodenum depends chiefly upon (1) reflux of the alkaline secretions into the stomach which is controlled by the pylorus and (2) reflex inhihition of gastric secretion caused by the presence of acid in the duodenam and jejunum. Of these the latter is by far the more important. Accordingly the opera ation which is most correct physiologically is the Billroth I procedure with extensive resection of the antrum After this operation the antrum the extter of the chemical secretory phase in the stomach is absent and only psychic secretion remains the duodenal inhibitory reflexes come into play un reakened or even strengthened because there heing no sphincter the gastric chyme goes unchecked through the gastroduodenal opening and reflux occurs more freely MORRIS A SLOCKE M D

lates H B A Remarkable Meckel a Diverticulum Br: J Surg 1930 XVII 456

The case reported was that of a woman thirty sten years of age who had had a large abdomen all her life suffered from constipation and for the last three months had complained of abdominal distention dyspaces and colicky abdominal pain of increasing severity Percussion revealed flatness of the entire right side of the abdomen

At operation a large oval tumor mass arising from the sleum was found extending from the pelvis up under the liver in the right ball of the abdomen and deflecting the cocum and ascending colon to

ward the midline

Autopsy disclosed a Meckel a diverticulum measur ing 36 by 17 cm which arose from the antemesen tene border of the ileum 8 cm above the ileocolie junction Posteriorly, the diverticulum had a mesentery Its wall was composed of n low mucous membrane with glands resembling those of the small intestine a muscularis mucosæ and circular and longitudinal muscle coats. The muscle coats were hypertrophied to five times the thickness of those of the Heum JOHN H WOOLSEY M D

Tldy H L The Diagnosis and Treatment of Catarrhal and Ulcerative Colitis Bett M J 1930 1 135

Chronic catarrhal colitis is characterized by a diar thra persisting over a long period of time and re maning more or less constant from day to day Blood and mucus may be present in the stools to vaning amounts Chronic colitis may begin as an acute or subacute colitis or insidiously as a chronic form Tidy believes that catairbal and ulcerative counts are identical and should be given the same

The conditions from which chronic catarrhal coli is must be differentiated are mucomembranous col the dysentery neoplasm of the colon and tubercu losis of the colon Mucomembranous colitis is char acterized by neurosis constipation and the passing of mucus. During an attack the mucus is passed in the form of casts and the stools are solid unless a layative has been taken. Dysentery is diagnosed by the discovery of the specific organisms in the stools Amochic dysentery should be suspected in the cases of patients who have been exposed to amorbic infec A patient with a history of such exposure should be given the advantage of a course of specific treatment The neoplasms of the colon which must be differentiated are those producing construction and obstruction of the intestine and those in which ulceration occurs. The symptoms vary according to the site of the growth As the result of obstruction there is increased peristalsis with associated colicky Malignant neoplasms of the pelvic colon should offer no difficulty in their differentiation from chronic colitis because the constant type of stools which are characteristic of the latter condition are seldom seen in pelvic malignancy. Tumors in the spleme and hepatic flexures and execum should offer little difficulty in the diagnosis. The differentiation between intestinal tuberculosis and chronic catarrhal saundice is easy except in the late stages of the former when blood may be present in the faces However in tuberculosis of the curcum the bowel movements are not so markedly increased in number as in chronic colitis

The diagnosis of chronic colitis may be made by careful observation of the case over a period of days sigmoidoscopy roentgenography after a barium meal or enema and exploratory laparotomy Colitis im properly treated has a high mortality The author believes that sigmoidoscopy should not be employed in chronic catarrhal colitis because a correct diagno sis may be made without it and the introduction of the sigmoidoscope irritates the diseased rectal mu cosa Roentgenography following the administration of a barrum meal or the injection of a barrum enema will usually reveal the presence of a neoplasm. The barium enema is preferable to the barium meal. Ex ploratory laparotomy should be undertaken only

after careful consideration

The treatment of colitis consists in keeping the patient warm by applying external heat administer ing large quantities of fluid to compensate for the loss of fluids and giving a high caloric diet. Food should be given at intervals of not more than two and a half hours It should be well cooked Milk and fats with the exception of butter should be used in moderation Meat should not be given Bread or toast hiscuits butter, eggs fish jellies, and meat extracts may be taken freely Custards and simple milk puddings are permissible

Local treatment of the colon by means of enemas is of value When the patient first comes under oh servation the author prescribes a starch and opium enema consisting of a murilage of starch containing fram 20 to 40 minims of tincture of opium. This enema is given at night so that the patient will obtain rest Its effects last about twelve hours It is not given on more than three consecutive days nor more than five times a week as its more frequent use causes arritation of the anus. Its administration is continued until the number of stools has been

A diagno is of bilary ileus was made and twenty four hour, after the beginning of the attack she was brought to the hospital. She was then free from pain and palpation revealed only very slight sensitiveness at the right costal margin. However on the slightest movement she vomited the greenish material characteristic of occlusion of the small insteture.

At operation performed two hours later, a part of the small intestine was found diated and congested and the terminal portion was discovered to be flattened like a ribbon. At the juncture of the two segments there was a large calculus. The calculus was extracted by enterctomy. The patient died on the afternoon of the second day following the operation

Brocq did not aspirate the intestinal contents above the stone because the vomiting before the operation had been so abundant and because the

distention had not been very great

The photograph and roentgenogram of the eal culus removed from the small intestine at operation gate an image exactly like that seen in the roent genogram of the duodenum taken hiteen days before

the symptoms of occlusion

At autopsy an abundant suffusion of blood was found in the sheath of the great rectus muscle on the right side. This may have played a rôle in the de velopment of shork and may have been explained by the hepatic insufficiency. The peritoneal cavity was free from blood pus and intestinal fluid The intestinal auture was holding perfectly. The lower border and the lower surface of the liver were closely united to the duodenum by very tight omental and peritoneal adhesions. When the adhesions were freed a perforation of the gall h'adder obliterated by an omental mass was discovered at the juncture of the first and second portions of the duodenum and when the duodenum was opened a second and larger perforation of the gall bladder into the duodenum was found in the same location. In the larger perforation there was a stone still largely included in the gall bladder but beginning to enter the duodenum

This case shows the extreme tolerance of the duodenum to stones. From the chuncal hastory it seems apparent that the patient was able to tolerate an enormous stone in the duodenal builb for a month at least without other discurbances than a slight apontaneous sensitiveness in the right thank and slight pain on pressure. Pace

Masson J C. and McIndoe A H. Right Paraduodenal Hernia and Isolated Hyperplastic Tuberculous Obstruction Comment and Report of a Case Affecting the Jejunum and Heum Operation and Recovery Surg Gisec

& Obst , 1930 1 29

The authors report a case of right paraduodenal herma associated with marked obstruction of the hermated small intestine due to an 1 olated tumor which resembled a cartinoma but was of hyperplastic tuberculous origin

The presence of tuberculosis in the hernal sic is attributed to stagnation of food and the slowing of the intestinal current in the sac. The conditions were therefore similar to those under which the same type of fuberculosis occurs in the circum

Fiddian Green W. B. A Case of Recurrent Duodenal Ulcer After Pylorectomy and the Forma thon of Bone in a Laparotomy Wound. Bul J. Surg. 1930 201 555

The author reports the ca e of a man forty four years of age who had suffered from dudenful uter for seven years. The diagnoss was confirmed by Tay examination At operation many addition to save found around the pylorus in addition to an uter in the first part of the duotenum which peretrated the panetreas. The uter bearing segment of part of the storm had affected from the part of t

part of the stomach antium and a Billioth I operasium map reformed. Unre-wirth secovery resulted about he p sus later the symptoms reclured and re-entered the hospital. A rocategoogram than revealed an ulcer in the upper part of the duodenum At a second operation an ulcer of the posteron rail adherent to the pancies was found. On account of the decise addissions and industrian it was possible the decise addissions and industrian it was possible

to do only an antenor gastrojejunostom; A month after has discharge the patient returned with a hard cartilagnous mass in the air. O are moved this was found to be a piece of true bone or molog which formed a guiter enclosing the inset produce of the right rectum since! In that's four the hirty was cases of bone formation have accorded to the right rectum since! In that's four which was not been considered to the size of t

An interesting feature of this case was the five year period of freedom from symptoms following the first operation. Attention is called to the fact that

hist operation Attention is called to the lact trus, the operation was done at a time when it was not realized that the chief e sential in the treatment of duodenal ulcers by excision is the removal of a sufficiently large portion of the gastri, antrum

The author rites the observations of Janses who collected from the Literature twenty-one cases of recurrent ufcer toflowing a Billroth I operation. In eleven the lessons recurred at the site of auture Immificient resection of the autrum explained nearly all of the recurrences.

bass of the literature. The rupture of an ovarian cystoma is followed by the escape into the abdominal anti of tumor cells which multiply and may be come attached at a distance from the site of rupture la raptured appendiceal mucoceles on the other hand there is physiological cylindrical epithehum which always settles in the region of the organ from shithit arose and although it may continue to func tion exhibits no noteworthy proliferation. How ever the rupture of an appendiceal mucocele may be bilowed also by transplantation metastases as as endent from the literature In such cases the ques tion arises as to whether it is truly normal epithelium from the appendix or epithelium that has become pathologically changed although not into the form of tumor cells which becomes implanted in the ab dominal cavity Under such circumstances the prog nous is not so absolutely favorable as has been as samed heretofore

Is they five surgically treated cases of pseudo myson pertons of apprendicts origin reported in the literature there were time deaths (pulmonary tuber tubes) infections peritonists utermas with septic addition of the mysoma cavity pulmonary tuber class—pseudomysoma not curred in spite of three operations—and adhesion of loops of bowel to one sealer by mysoma massach.

In the differential diagnosis between pseudo mytoma peritoner of appendiceal and ovarian or particular communities of the mucus is of no assistance. Wante (Z)

Binkley G E The Treatment of Inoperable Car cinoma of the Rectum Canadian W iss J

There has been a marked improvement during the pest decade in the degree of palliation afforded in soperable carcinoma of the rectum. This has been brought about by a better understanding of the disease and by improved methods of irradiation therap) Since the cases have been more carefully selected and treated in accordance with their clinical and pathological features the reactions have been less severe and the results more gratifying. The author's records show that a number of patients treated for inoperable carcinoma of the rectum are non chincally free from the disease and that a larger number were rendered comfortable for periods ranging from one to eight years. In the very ad vanced stages of the condition the chief effect of palliative treatment is a decrease in the severity of the symptoms In many instances however life is considerably prolonged la selected operable cases irradiation therapy

slope is capable of producing as satisfactory results as radical surgical removal. In imoperable cases it radiation therapy alone or combined with pallin the surgical measures results in greater palhation than any other present day method.

Enternal irradiation is given most effectively by means of a pack containing 4 gm of radium. The author employs from three to seven portals of entry

about the pelvis giving a maximum dose for each of from 50 coo to 60 coo mgm his with the pack at a distance of 15 cm from the skin and a maximum dose for each of from 18 coo to 20 coo mgm his with the pack at a distance of 10 cm from the skin This is supplemented by a -40 ma min application of high voltage roentgen rays.

Binkley reports three cases in detail

JOHN J. MALONEY, M.D.

Lockhart Mummery J P The Use of Radium in the Treatment of Rectal Carcinoma Brit W J 1930 1 139

In the treatment of carcinoma of the rectum, radium max be used in three was (r) as an adjunct to excision to permit the performance of a less serious operation (2) to treat cases that are in operable and (x) as a substitute for excision

Since the discontinuance of the local operation and the adoption of colosions with more radical excision the mortiality of carxinoma of the rectum has markedly decreased However a colosioms is very disagreeable to the patient and the author believes that by the proper use of radium it may be possible exercised to the patient and the author of the properties of the tumor without resorting to colosions and more radical procedures.

In cases of tumors of relatively short duration located in the middle or lower part and on the posterior wall the author removed the coccyx and occasionally a portion of the sacrum opened the rectum on the side of the growth and removed the tumor completely with a margin of healthy tissue around it. He then closed the wound of the rectum transversely and placed radium needles in the meso rectum as high as possible. He closed the external wound around a small drain. One week, later he

re opened the wound removed the radium needles and established free drainage In only one case was there any leakage through

the wound Function was completely restored The only recurrence in the scar developed as months later and was treated successfully with radion seeds. The author emphasizes that radium should never be used as a substitute for extirpation. He has em ployed it only in cases in which the patient refused radical surgery or colostomy. The best results he has seen were obtained in cases of epithelium of the

epithehomatous ulcer was cured by the insertion of ridon secto.

In inoperable cases of carcinoma of the rectum radium irradiation is of special value. Previously much too large doses were employed. At the present platimum screening are found most bearing in the platimum screening are found most bearing and include the properties of the plating of the previous multigram needles are placed it cm. apart, paralleling the bowel lumen. They are left in place for from a

anus occurring in elderly persons. In one case an

week to ten days When the needles are removed the wound is left wide open To deal with abdominal and pelvic metastases it is necessary to perform a laparotomy To prevent reduced by half or to about five daily which usually requires about three weeks

At the end of that time the patient may be given colonic washes with a solution consi tiog of a dr of sodium chloride or 2 de of sodium bicarbonate to a pint of water. About 2 pt are usually injected These washes are used not oftener than on alternate days and are given in conjunction with the starch and opium enemas until there has been a definite decrease in the number of stools. In severe cases they must be continued for from six to eight months.

The patient is then treated with medicated one mas consisting of from 20 to 30 gr of albargin in 30 oz of normal saline solution. These are giveo oo alternate days not more than six being administered in a period of two weeks. They cannot be retained long because they cause discomfort and may become painful They should never be retained longer than twenty minutes. It is usually necessary to use medicated enemas for from two to three months Incontinence of faces which does not respond to

the starch and onlym enemas is an indication for surgical treatment. As a general rule morphine should not be admini tered because it does not affect the disease process and merely gives the nations a sen e of improvement. Tincture of onium in a minim doses he mouth four times a day is permissible Other drugs given by mouth are bymuth charcoal and kaolin. Their exact value is not known. Sac cines are of ro value

In contrast to chronic colitis acute colitis usually begins suddenly and is associated with gastric symp. toms especially comiting. It is essential to prevent lo s of heat and fluids from the bods treatment consists in the administration of a starch and onlum enema ALTON OCHNER M D

Anderson J H and Marxer O A Polyposis of the Colon Bell J Surg 1930 xim

The authors emphasize the value of sigmoido scopic and roentgen ray examination in the diag nosis of multiple polyposis of the colon and report two cases of that condition

In the roentgenogram the barrum filled bowel is studded with concave impressions on an otherwise smooth margin and the mucosa presents a honey comb appearance due to displacement of the barram by the polypi Incomplete mass movements slowing of the relaxation phase and absence of segmentation are noted

One of the patients whose ca es are reported by the author had a brother and a sister who suffered from ulcerative colitis and a sister who died from JOHN H BOOLSES MD cancer of the rectum

Lecaplain Influenzal Abdominal Syndrome of the I seudo Appendicular Form (Syndrome abdomi nal grippal à forme pseudo appendiculaire) Bull et mêm Soc mêd d hôp de Por 1929 xls 14,1

Lecaplain reports briefly four cases of influenza with an abdominal syndrome suggesting appendict

tis. The patients were between the ages of eight and eighteen years. The onset was sudden with the usual symptoms of influenza-elevation of the tem perature headache lassitude redness of the tonsils and a blue-gray discoloration of the tongue. On the second or third day pain developed in the right iliac forsa with tenderness on pressure at McBurney's point but without defense on the part of the ab dominal wall Nausea and constipation were pres eot but there was no biccough or somiting. In the first case there was pain in the epigastnum and both that losse on the second day. In general the pain in the region of the appendix lasted for from two to four days The symptoms then subsided spontane ously and recovery was complete after from eight to twelve days The treatment consisted of a fluid diet the application of cold compresses to the abdorren the administration of sodium citrate and disinfection of the nasopharypy. There does not appear to have been either a true appendicutes or a lighting up of an old appendicuts

The author suggests that the condition may have been a mild abdominal angina with a trar ent ful sicular reaction of the appendicular is mphoid tissue corresponding to the reddening of the tons. but believes that it was more probably a sympathetic syndrome which was centered at a point to the right

of the umbilious simulating McBurney a point Immediate intervention does not seem to be de manded. On the contrary operation during influen za epidemics would expose the patient to grave pul monary complications FLORENCE I CARPINTER

The Chnical Licture of Mucoceie of Liebleia 1 the Appendix and of Pseudomyzoma of Appen diceal Origin [Zut Klinik die Mucocele des Murm fort atzes und des P rudomy zoms appendikulaeren

L'rennance) Beste klin Chir 1020 cxivil 1/4 The author reviews all cases of mucocele of the ap-

pendix recorded in the hterature to date and reports in detail five cases of his own

In Lieblein's first case there was a cost of the appendix which was completely isolated from the car cum Such cases are rare. More frequently appen diceal re to or pinched off portions of the appendix are the site of the cyst formation. These also may te found at some distance from the carcum. The di agnosis before operation is difficult especially when the costs are large and there is no history of an appendix condition The \ ray bas not aided in the diagnosis In one of the author's cases the mucocele developed after the incision of an abscess. In an other it followed the opening of a retroperitoneal pseudomy toma In the latter case a recurrence was found at a second operation. The recurrence is at tributed by Lieblein to mucus secreting epithelium that was presumably left in the retroperitoneal space in rather large quantity at the time of the first opera tion and maintained its function over a period of rears

The difference between pseudomy zoma after ap pendicitis and ovarian disease is discussed on the bass of the literature. The runture of an ovarian ristoma is followed by the escape into the abdominal cauty of tumor cells which multiply and may be come attached at a distance from the site of rupture la reptured appendiceal mucoceles on the other hand there is physiological cylindrical epithelium which always settles in the region of the organ from *buhit arose and although it may continue to func ton exhibits no noteworthy proliferation tier the rupture of an appendiceal mucorele may be followed also by transplantation metastases as is endent from the literature In such cases the ques tion arises as to whether it is truly normal epithelium from the appendix or epithelium that has become pathologically changed although not into the form of tumor cells which becomes implanted in the ah dominal cavity Under such circumstances the prog nous is not so absolutely favorable as has been as sumed heretofore

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In the differential diagnosis between pseudo Pivioma pentonmi of appendiceal and ovarian ori gas chemical examination of the mucus is of no a.sistance

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There has been a marked improvement during the past decade in the degree of palliation afforded in inoperable carcinoma of the rectum. This has been brought about by a better understanding of the disease and by improved methods of irradiation therapy Since the cases have been more carefully selected and treated in accordance with their clinical and pathological features the reactions have been ess severe and the results more gratifying The author's records show that a number of patients treated for inoperable carcinoma of the rectum are now clinically free from the disease and that a larger number were rendered comfortable for periods ranging from one to eight years. In the very ad vanced stages of the condition the chief effect of palliative treatment is a decrease in the severity of the symptoms In many instances however life is rousiderably prolonged

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JOHN J MATONEY M D

Lockhart Mummery J P The Use of Radlum In the Treatment of Rectal Carcinoma W J 1030 1 130

In the treatment of carcinoma of the rectum radium may be used in three ways (r) as an adjunct to excision to permit the performance of a less serious operation (2) to treat cases that are in operable and (3) as a substitute for excision

Since the discontinuance of the local operations and the adoption of colostomy with more radical excision the mortality of carcinoma of the rectum has markedly decreased. However a colostomy is very disagreeable to the patient and the author believes that by the proper use of radium rt may be possible especially in the earlier cases to attempt local excision of the tumor without resorting to colostomy and more radical procedures

In cases of tumors of relatively short duration located in the middle or lower part and on the posterior wall the author removed the coccyx and occasionally a portion of the sacrum opened the rectum on the side of the growth and removed the tumor completely with a margin of healthy tissue around it ffe then closed the wound of the rectum transversely and placed radium needles in the meso rectum as high as possible. He closed the external wound around a small drain. One week later he re opened the wound removed the radium needles and established free drainage

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be used as a substitute for extirpation. He has em ployed it only in cases in which the patient refused radical surgery or colostomy. The best results he has seen were obtained in cases of epithelioma of the anus occurring in elderly persons. In one case an enthehomatous ulcer was cured by the insertion of radon seeds In moperable cases of carcinoma of the rectum

radium irradiation is of special value. Previously much too large doses were employed. At the present time doses up to 6 000 mgm hrs with r mm of platinum screening are found most beneficial. Three milligram needles are placed 1 cm apart paralleling the bowel lumen They are left in place for from a week to ten days When the needles are removed the wound is left wide open

To deal with abdominal and pelvic metastases it is necessary to perform a laparotomy. To prevent the plastic peritoritis which invariably results from the action of radium on the peritoneum it is neces sars to wall off the pentoneum from the needles and drain this portion of the shdomen

The author is now employing radon seeds within the abdomen which saves re-opening the abdomen

after a week or ten days

As a result of the radium treatment the growth becomes smaller, ulceration heals and in cases with successful results the growth disappears entirely

One of the chief difficulties in the treatment of carcinoma of the rectum with radium is the difficulty of access Sepsis is responsible for some of the complications

In conclusion the author says that it is still too early to draw conclusions regarding the end results and that the technique is still in the experimental stage ALTON OCHSAFR M D

Miller R B The Rational Treatment of Haroor rholds & 5 Nat 3f Bal 1930 xxviii 34

Miller discusses only internal hamorrhoids. He states that fully 50 per cent of internal hemorrhoids can be cured by non operative measures hut the latter require special apparatus and a highly special ized technique

Electrical methods have been used to a limited extent Desiccation ionization by simple galvanism galvanopuncture and electrocoagulation have all given good results. The injection of various corrosive substances into the mass has been done with varying success. In this type of treatment the best re ults have been obtained with quinne and urea hs deachlande

A review of the many operative procedures leads to a summary of the operations which are most widely used and have stood the test of time-the clamp and cautery operation ligation with excision and the Whitehead operation. Of these procedures the clamp and cauter, method has been used most frequently because of its samplicity and rapidity The chief objection to it is its hability to be followed by hamorthage

Operation is indicated by inflammation, prolapse ulceration and strangulation of the hamorrhoids and by complicating conditions such as anal fissure anal

fistula and cryptitis

For small pedunculated hamorrhoids simple hea tion and excision is a sati factory method. For hemorrhoids of moderate size ligation and trans fixion with or without preliminary circumcision of the tumor followed by excision is an approved method

Experience suggests the following rules I Use the open method of operating 2 Avoid dissections 3 Perform ligation operations only 4 Tie befo e cutting 5 Avoid the use of crushing clamp pres sure 6 ever divulse the sphincter 7 Prevent the persistence of extensive raw areas ? Avoid the transfixion of blood vessels 9 Avoid the inclusion of too much tissue in the ligatures 10 As aid undue tension in the approximation of wound margins

13 Avoid the use of a padded rectal tube 12 Em ploy mercurochrome before and after the operation The author prefers to operate under sacral anas thesia After discussing the operations of Pen mington Wartin Montague and Huschman he describes a bloodless operation devised by him In the latter procedure the mass is prolapsed with the fingers and placed on the stretch by two hamostatic forceps which grasp it near its upper and lower extremities A slender clamp is then placed on the base of the tumor parallel with the long axis of the bowel and an interlocking chain stitch is introduced heneath the clamp with a Reverdin needle Each mass to treated in the same way. The stitches are tied and the tumor is excised above the blades of the clamo I EDWARD BISHROW M D

LIVER, GALL BLADDER PANCREAS AND SPLEEN

M Gowan J P The Alkali Reserve of the Blood in Relation to the Van Den Bergh Bilirubin Test Edinburgh M J 1930 Exxvii 25

An emic pigs with well marked bilirubinamia and a lowered alkalı re erve gave indirect van dea Bergh reactions By the simple addition of a buffer these reactions were readily made direct Lusmins tion of the livers of the animals showed what was interpreted to be obstructive jaundice

M Gowan concludes that the direct and indirect reactions are due to the same chemical substance and that the reaction is indi ect when the alkali reserve of the blood is diminished. He believes that his findings indicate the extrahepat c origin of րկուսիտ M HERRERT BLANCE MD

Fuentes B \ Duomarco J and \funilla A Liver Glycogen in Icterus from Experimental Obstruction The Effect of Adrenalin and Insufin (Giucogeno hepauco en la iciencia por obstrución experimental Influencia de la adrenatina y de la insulina) Rer Ason med argent 1929

The authors report experiments carried out on white rats dogs and rabbits which showed that ligation of the common duct causes a marked de crease in the concentration of gly cogen in the liver

In the white rat the gly rogen was reduced minetenths of its normal value within an hour and a half after the bigation After six hours none at all remained From the fourteenth to the fort, fifth day it re appeared but always in very small

amounts In the dog the glycogen did not disappear com pletely from the liver after the ligation but fell to very low values

In the rabbit the glycogen disappeared I on the

liver completely

In the cases of dogs and rabbits the liver which had been deprived of all or almost all of its gly rogen regained a small part of it when the animals were given farge amounts of sugar

The uperton of insulin at the same time that the pieces was prese and not favor the accumulation of proogs in the liver, but interfered with it. The piecos of adrenain which, in normal rabbits is followed by a marked increase in the blood sugar to the same effect in rabbits subjected to ligation of the common duct in spite of the fact that in the latter there was no glycogen in the best of the latter than the same effect which is not due altogether to mobilize ban of the glycogen which has accumulated in the ber

the lighton of one kepatic duct there was a creat reduction of glycogen throughout the liver, but the reduction was most marked in the lobe blonging to the lighted duct. The administration of gives to rebuits and dogs under such circumstances du not greatly change the amount of glycogen in c ber lobe. Amark G Moscay, M D

Ellis J C and Dragstedt L R Liver Autolysis
in vno 4rch Surg 1930 xr 8

In the experiments reported the authors at tempted to determine the tôle of bacteria in the midd data caused by liver autolysis in one. They draw the following conclusions

The uncontaminated liver of a normal healthy sould dog regularly contains a gram positive an aerobic bacillus

j 1° is probable that the experimental so called in it a sacptic autolysis" of the liver is always incompaned by this infection and that this is the cause of death

3 Aseptic autolysis in two of fetal liver proved stelle by culture does not produce a toxic effect John J Malovey M D

Waters C A and King J H The Intravenous Method of Cholecy stography and Liver Function Test as Employed in Office Practice Am J Reinigenol 1930 xxiii 34

Numerous substances investigated by Graham with into a solvers were found to produce cholecysto trans but sudophenolphthalen and its soomer perceited and spendent proved to be safer than, and spendent of the solvers safer than as spendent of the others. The soomero salt has the advantage of stanning the blood serum thereby the salt is also to determine hepatic function at the time of the cholecystographic examination if the salts administration of the salts administration o

Is the determination of liver function 12 c cm of blood are enhanced in the state of the state o

lanous methods for the administration of the dye have been tried hut all except the intravenous and mal methods have been ahandoned. There is now considerable controvers, regarding the comparative value of the methods. The authors believe that the intravenous method is superior to the oral method because it introduces a definite quantity of the dye into the circulation the resulting cholecystograms are far superior to those obtained with the oral method and the reactions that occasionally occur are not as alarming as those that may be associated with the oral method.

In the cases reviewed sodium phenoletra iodo phthalein was used exclusively. Every patient received * 5 gm of the die

The dye is dissolved in an error of freshly distilled water and the solution then filtered through fine filter paper and sternized for twenty minutes in a boiling water hath. The solution should not be more than two hours old

The apparatus which is shown in an illustration, keens the solution at body temperature and facili tates its introduction by the gravity method After the needle is introduced into the vein go c cm of normal saline solution are given first The dve 19 then administered slowly each to cam being fol lowed by 20 c cm of the saline solution cedure seems to prevent disagreeable reactions The injection is usually given in the afternoon. The patient is permitted a hearty noon meal free from fats After the injection no food is allowed except water plain tea or coffee The examination is made the following morning After satisfactory cholecysto grams have been obtained the patient is given a meal rich in fat and two hours later is examined again

The roentgenograms must be taken with the shortest possible exposure and the use of the Bucky daphragm. With the intravenous method lateral and ohlique views can be obtained. Just before the roentgenograms are made a warm water enema is given routinely to rid the colon of gas.

Disagreeable reactions following the intravenous use of the dye in the authors cases were beadache chilly sensations erythema urticaria and venous thrombosis occurred only once The reactions with the oral method were nausea womiting diarrhera abdominal cramps and head ache

The contra indications to the use of the dye are cardiac decompensation, abnormalities of blood pressure and threatened uraemia

Of a series of annety six cases a laparotomy was performed in eleven and verified the cholecystographic diagnosis and ten. In the one case in which he cholecystographic diagnosis was not verified the normal sized gall bladder which was very family visible in the cholecystogram was believed to be pathological but operation revealed only adhesions about the cyste duet and microscopic examination of the gall bladder after its removal showed no disease.

Of a series of fifty seven cases the cholecystographic diagnosis agreed with the chinical impression in fifty six. One case wa examined to determine whether a shadow wa due to a renal calculus or a gall stone. The gall bladder was not visualized and the stone was found in the Lidney The gall bladder was not explored at operation

Of thirty nine cases in which the liver function test was carned out the test was normal in nineteen In seven cases it was above normal in the absence of demonstrable jall bladder disease. Of twenty one cases with hepatobiliary disease it was above normal in ten and normal in eleven. In eleven cases in which a laparotomy was done the highest reten tion was 22 per cent. In all of these cases a good recovery resulted

Graham Cole and Copher believe that the opera tive tisk and the time for operation in hepatobiliars disease may be determined from the liver function According to their experience a very high retention indicates a poor operative risk

In the discussion of this report Case (Chicago) stated that he had given the die intravenously for cholecy stography in about 4 500 cases and favors this method. He allows the patient to eat a hearty meal after the injection provided it is restricted to carbohydrates If any of the die leaks into the tissues the injection in that year is stopped and the perivascular tissue is infiltrated with normal salt

solution Moore (St. Louis) reported that he also had obtained the best rest its with the intravenous adminis-

tration of the die de enhed b Waters MonoEs (I biladelphia) asked Waters if he hadtried hall as much dye as he advocated Waters replied that he had not but thought it would act as well and might show negative stone shadon, which would

he missed by the use of larger doses CRANE (Kalamazoo) stated that the use of the intravenous method can be restricted to a compara tively small percentage of cases 1e those in which the oral method has failed to give a satisfactory

choles stoeram New FLL (San Francisco) stated that in his opinion the pall bladder should be empty at the beginning of the test. It is therefore his practice to give a glass of milk and cream three or four hours before the test He inquired whether the new isomer is less apt to cause sorene s of the arm Waters replied thar sore ness of the arm resulted in one of minets six cases In that instance a thrombosis occurred in a collateral seen about 4 or 5 in from the focation of the

injection STEWART (New York City) said that he had u ed the oral method in about 5 000 case and had never been disappointed in it. He employs the intravenous method when a test of liver function is to be made

Warres in closing the discussion expressed the hope that his colleagues would substitute the in travenous method of cholecy stography for the orat method because of the more satisfactors to ults which can be obtained with the former

I EDNIN KIRAPATRICA MD

Sutton J F Jr Changes in the Intrahepatic Bile Ducts Following Cholecystectoms Ins Surg 1930 xc1 6,

Sutton found that removal of the dog s gall blad der produce striking changes in the epithelium of the intrahepatic bile ducts. The low columns epi thehum to transformed into high columnar cells with folds and with covered with these cells projecting into the lumen of the ducts. The beginning of the change is demonstrable fifteen days after the chole exstectoms and forty days after the operation the changes are well advanced. The picture presented hy the duct epithehum forty days after the removal of the gall bladder to that of an eraggeration of the folds projecting into a gall bladder and the epithelial rells and their arrangement resemble those of the normal gall bladder to a remarkable degree The panetal saccula enlarge following cholecy stectoms and their epithelial cells undergo the same thanges as the e in the intrahepatic ducts

Charhonnel and Augistron A Large True Cyst of the Pancreas Disappearing Completely at Times (Gros kyste vrai du pancréas di perai ant complètement par intermittences) Bull et mem

CARL R STEINE M.D.

Sau nas de chie 1929 in 1281 The patient whose case is reported was a noman twents five years of age who presented a tumor of the left hypochondrium which was the size of a tetal head resistant dull and streducible. It had reached this size within a few days and caused respirators disturbances and pain. The patient complained also of constipation. There had been no eru tations comitting distribute or abnormal emission of gas The skin honed traces of erathema due to hello therapy which had been advised by the at ending physician who had diagnosed the tumor as an ever mous cold aboves from congestion the origin of which he judged to be dorsal I oft a disease becouse of the presence of slight scoliosts and interscapular The tumor had de appeared and recurred to

before the patient was seen by the authors Exploratory puncture seemed contra indicated Roentgeno cope showed a rounded dark reass in the left hyporhondrium After a banum meal the stomach appeared very narrow in the med an I ortion a if it were compressed and push d back to the right by the riass I diagnosis of abscess from congestion pethaps of vertebral origin but more probably of pleural origin was made and the patient told to return the next day for an exploratory panet ire Honever when the patient returned she felt bet er the tumor had disappeared the epigastnum and feft hapochordnum were absolutely supple and far and or roenigeno copy the round and obscure mass in the hypechondrium could no longer be seen

I we months later the phenomenon recurred the cause of the poss bibly of disturbances of garing evacuation or aerophage medical treatment and the ventral position were used in pite of the the tumor increased in size for six or eight days and there

vas pan which became more acute until the disgentance of the mass, which occurred within a few
boars. Capillars puncture withdraw from the tumos
to com of a very viscal strangy gravish white
"ald recenbing saliva." This fluid was not reed. In
the form offerduring sugars bile pigments and
the form offerduring sugars bile pigments and
the first of the salivary amount of pephones
the authors disputed the tumor as one caused by
same distallow periodically blocked by a trophagy
state classification of the salivary amount of
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deterests a subplange in a nervous woman. How
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When the phenomenon recurred for the third time the symptons were aggravated Duming a period of forty eight hours the patient passed blood to the country of the patient passed blood to the country of the patient passed blood to the country of the patient passed blood to the patient passed blood to the patient passed blood to the patient passed to the passed to the

the stomach forward fattening it against the abdominal nall. Only the fundus and pyloroduodenal repon escaped the compression. Laparotomy revealed a large cystic mass distend

u, the gastrocolic omentum and pushing the omach forward and to the right A brownish viscid bound to the amount of 252 liters was withdrawn by puncture Intracystic hamorrhage had occurred it the bottom of the pocket and closely attached to was the tail of the panereas. On the internal wall there were small translucent cysts of the size of If he seeds (not at all like hydatid vesicles) Be cause of extensive adhesions only two thirds of the Porket could be extirpated. The rest was mar supraised In the resection of the portion of the pocket at the level of the tail of the pancreas a series of intrapanetal cysts containing a clearer less viscid Bud were opened These seemed to be continuous with the tail of the pancreas although the visible part of the latter was not polycystic

Specimens for histological examination which were taken from three different areas of the pocket (one in the reston of the micros stal) showed a collection of use in a wall containing trace of enterod tresse. The problem of the covering of the cysts was supposed in some areas of tall vindirical cells and it others of flatlened created cells. There were american small cysts eparated by thin walls of consecute its size showing lwmphocites. No indiration of maligrant transformation was noted. The mucous of maligrant transformation was noted in the mucous and the consecution of the control of the consecution of the control of the co

The immediate results were good and the patient left the ho pital with a small drain in place on the

twenty fifth day. She gained 5 kgm, but lost them again and six months later replacement of the drain was necessary on account of retention of pus

Charbonnel and Augistrou conclude that this was a case of true Gyst of the panceratic gland with epithelal covering a cystic adenoma. They point out a relationship between the enteroid appearance of the cpithelium of the cyst and that of microid cysts of the owary which be man are thought to be enteroid tumors. As the cyst was not entirely extrapted it will probably receive the complete complete that the cyst had an opening, into a pancreatic canaliculus and from there into the pancreatic duct and that this communication be came obliterated entirely when there was no tension

In the discussion of the report Brechot said that he had observed a case with analogous symptoms. Wher two disappearances of the city the operated and found a papereatic pseudocyst which under ten aion broke its harmers and caused an effusion into the personnel cavity.

Oubrepance suggested the possibility of cystic lymphanmoma adjacent to the pancreas in cases with a deep abdominal tumor which disappears and re appears

Brocq who read the report of Charbonnel and Augstrou hefore the Society replied that in the casunder discussion the diagnosis of true cyst of the pancreas, was clearly supported by examination of the cyst wall and the intimate relationship between the tail of the pancreas and the wall of the cyst

Bailey II Spontaneous Rupture of the Normal Spleen Brit J Surg 1930 2011 41

The author reports a case of spontaneous rupture of the spleen and reviews eleven other cases from the hterature

Baley a patient a man twenty years of age was suddenly sueed with pain in the abdomen and left aboulder while he was sitting in a chair. His tem perature then rose to 10 degrees F and his putserate to roo. Examination reveiled generalized abdominal tenderness This was naturnal in the right hyporhondrum where ngridty was also found Laparotomy duslosed a large amount of free blood spilenectomy was performed. A subcapaular ha matoma had ruptured.

In conclusion Bailey states that in atraumatic hemoperitoneum in the male the spicen should be examined first M. Herbert Barker M.D.

Dural P Severe Hamatemess with Splenomeg aly Splenectomy A Large Scientic Spleen with Thrombosis of the Splenic Velns Recovery (Hamatemess graces avec plénomégale splenectomic grosse rate sciénosée avec thrombose des veners splénomes graceson). Bull d'mém Soc nat d'echn 1919 [V 1203]

Duval reports the case of a woman twenty eight years of age who entered the hospital because of severe harmatemeus melarna weakness vertige and headaches For several jears she had had digestive disturbances 'sour stomach' and a feeling of weight in the addomen after meals A diagnoss of hyperchiberly dras had been made. A mouth before she extered the hospital blood had unddenly appeared in the unnet twelve hours after she had taken a pursative and fet same days she vomited blood four pursative and fet same days she vomited blood four had been been been sourced to be a superlarge clot. The harmaterness was followed to found and the passage of black frees with a foul odor The attacks of weakness sometimes terminated in loss of consciousness.

On examination at the hospital the patient was found to be very anomic. The splien was large the lower pole being at the costal margin and the dull ness extending up to about the fifth no in the asultary him. It was hard but not riregular. A dangooss of himatemess of splients origin with splenomegaly from incinent lants of size. a was made

After treatment to combat the anarma splenecto my nas done. The large veins of the pedicle of the splene seemed completely thrombosed.

The operation was followed by uninterrupted recovery. Three months later the patient was in very good general condition and the red cell count was 4 020 000 as compared with the pre operative count

of 2 180 000

Histological examination of the spleen showed chronic obliterating splenophlebitis sclerosis and

intersitual harmorrhages

Because of the present tendency to place sclerosis of the spleen with thrombosis of the spleen with thrombosis of the spleen venture a special grouping. Dural hesitates to call this a case of Bantia divease.

Page

Desplas B Cain A and Peyre E Banti s Disease Splenectomy Recovery Late Results (Maladie de Banti splénectome guéraon résultats élogaés) Bull et mem Soc nat de chir 1939 h 346

The case teported was that of an extremely corpulent man with thorance reportation who corpulent man a permanent feeding of weight had had ague symptoms consisting of slow direction and a permanent feeding of weight in the right his pochondrium and three years ago had noted an increase in the size of the liver I in the fast eighteen months he had had four harmorrhages from the intestine and several attacks of operature. A diagnosis of mitral lesson had been made and treat ment with digitals had been given.

When the patient was examined by the authors he was extremely pale and weak. The abdomen was heavile and free from ascites and collateral creeds with the control of the co

and a diagnosis of splenomegaly with anamia was made. Banti's disease in the circhotic stage was

After two blood transfusions had here give splenectomy was performed Berause of the patients corpulence and thoraci respiration and because of the thoracid evelopment of the splene great difficulty was encountered in order to deliver the splenent was found necessary to resert the exartilagmous portion of the lower rib. While the exactlagmous portion of the lower rib. While the properties will be to the properties of the process of the pr

Convale cence was interrupted by subnetic estecthondrists pulmonary congestion endean of the legs decubitis on the buttocks and a temperature of from 35 to 30 edges CC Blood translation was followed by improvement. At the end of two months the various complications had clearly in except for serious supportation in the region of the wound which was found to have its origin in the wound which was found to have the original to the continuated. Two months inter the infected frogments of inb and cartilage were removed. The patient left the chinci in excellent condition in the anomals blood formula. Two years after the splene town who presented no sign of the disease.

Examination of the extirpated spleen showed uniform enlargement and hardening and a alight There was marked sclerous of the perisplenitis capsule pulp trabeculæ and vessels. The sclerous was of the adult non innitrating type. The fine reticular network of the sinuses was replaced by thick collaganous filaments which were poor in celis The sinusoid cells were small and contracted around their nucles. No macrophage reaction firmorthagic for or pigmented or hamatic inclusions were noted The red puip was greatly hypertrophied but the rot puscles of Malpighi were not appreciably changed Numerous mononuclear cells and eosmophiles were seen but no polymorphonuclears or plasma relis In every respect the spleen resembled the spleen of Hanti s disease

The condition of the blood at various dates is shown in a table. Two years after the splenectiony the anxima had completely disappeared the leado-cycle count was slightly increased (increase of imphocytes) and the serum was practically northal.

FLORYCK & CARENTEL.

MISCELLAREOUS

Ritro M. Hernia of the Stomach Through the Esophageal Orifice of the Diaphragm J in Y 4ss 1949 xxiv 15

Ritvo debnes herma of the creophageal ornite as the protrusion of a portion of the cardin of the stomach through the creophageal opening of the diaphragm into the thorax. This type of dia phragmatic herma was formerly considerate very rare but with the increasing use of the recentgen ray in

the examination of the gastro intestinal tract, it b being found with increasing frequency. In the last decade several large series of cases have been recorted

The author reports 60 cases, all diagnosed during the toutine roentgen examination of the stomach with the opaque meal in a period of five years damg which time about 8 000 gastro intestinal cases were studied roentgenologically

Enlargement of the esophageal orafice of the disphragm with resultant hermiation of the cardia may be congenital or acquired. The acquired ca es are due to increased intra abdominal tension plus tome unknown factor which accounts for the oc currence of the hermation through the ersophageal butus rather than at one of the more common sates

of hernia Of the 60 patients whose ca es are reported by the author, 41 were females The ages varied from renty-one to seventy two years. The majority of the patients were over forty years old Fourteen patients had no symptoms relerable to the hermia The most common symptoms were epigastric pain heartburn nauses, vomiting reguigitation and constinution. As a rule the symptoms were rather indefinite mild and of long duration. The most typical complaint was a feeling of weight or pressure a der the apphoid process coming on during or soon after caung and relieved by a bot drink or by

walking about for a few moments Small hernix cause no physical signs whereas Les herma may suggest pneumotherax or hydro thorax Roentgen examination is usually the only means of arriving at a diagnosis Very careful studies are essential to demonstrate the lesson Fluoroscopic observations with the patient in the prone supine and oblique positions must be made

as the hernia is rarely seen in the erect position After the ingestion of the opaque meal the herma is manifested by a round or ovoid shadow just above the diaphragm. It has in or near the median line usually to the left of the orsophagus. As a rule it connects with the stomach by an isthmus at the level of the excephageal orthice. It must be differentiated tocatgenologically from diaphragmatic herms of other types diverticulum of the cesophagus and stomach cardiospasm cardia esophageal relaxa tion and eventration The treatment consists mainly of the etic and preventive measures Surgical opera tion is indicated only if the symptoms are severe

MANUEL L LICETENSTEIN M D

Bobrov V Inflammatory Diseases of the Retro peritoneal Cellular Tissue of the Duodenum lancreas and Gall Bladder and the Avenues of Escape for Fluids from These Regions (fintzuendliche Erkrankungen des retropentonealen Zellgewebes des Duodenums der Pankreas und der Gallenbla e und die Abilus wege det Fluessigkeiten aus diesen Abschutten) i erhandi d zo russ Chir Kong Moscow 1928 1929

In studies on the cadaver the author found that the duodenum and the head of the pancreas are sur

rounded by a connective tissue sheath which is clo ed below and opens on the right toward the right kidney All injected fluids escape from the duodenal region toward the right, in front of the right kidney, and spread into the so called paracolon layer They flow around the hepatic flexure of the colon, the as cending colon and the cucum, sink into the pelvis along the ureter and hypogastric vessels as far as the bladder and extend along the external thac artery to the femoral canal Externally the boundary line extends to the reflection of the peritoneum and in ternally to the left border of the aorta where there are rather dense adhesions of the peritoneum to the vessels nerves and lymphatic organs Inferiorly, it extends along the mesocolon into the pelvis and above it goes behind the descending portion of the duodenum. The right and left layers are not strictly senarate above. In a few of the author's experiments miected plaster or gelatin went over to the left side and spread behind the descending portion of the colon sometimes into the left iliac fossa sometimes to the inner opening of the femoral canal and some times into the para ureteral laver

Bobrov emphasizes the inconstancy and neakness of the prerenal fascia. In 80 per cent of his expenments the gelatin mass broke through it and then filled the right or, less often the left paranephron and farther downward the retroperatoneal layer

Clinical observations on the extension of our blood and intestinal contents correspond exactly with the

author's findings in the cadaver

Bobrov describes also several clinical ob ervations of retroperitoneal hamotrhages and sunpurations arising from the duodenum pancreas and gall blad der He comes to the conclusion that suppurative processes of the retropentoneal cellular tissues having their origin in the pancreas and gall bladder infect the paracolonic tissues and often lead to infection of the fatty capsule of the right kidney These infections usually occur on the right side but occasionally ex tend over to the left side Such suppurations are serious As a rule they lead to peritoritis although in some cases they run a thronic course

Welkie D I D Some Principles in Abdominal Surgery Surg , Gynec & Obst 1930 1 129

Wilkie emphasizes that a guiding rule in the sur sery of the abdomen should be the avoidance of traction and tension Incisions in the abdominal wall should be so planned that they will give the freest possible access to the site of disease without the use of furcible retraction Retractor, should be employed only to retain out of the surgeon a nav tissues which have been gently pushed aside

The surgeon should deal only with the mobile or gan If the organ to be operated upon is immobile, it should be mobilized. Mayo has shown how a gen erous mobilization of the proximal colon may always be effected so as to render resection of a large section both simple and safe Other portions of the gut such as the duodenum the spienic flexure and the de scending and that colon are equally amenable to mobilization Mobilization is especially important in splenectomy

In Secretary 2015 and page secondary those due to it was a book advolution page and all persons and due either to spass not or tension with the through the seperalty important form of intra-abdomatal ten soon is that of acute obstruction of the appendix a condition in which timely operation can remove threatening danger whereas delay of operation means rupture with the development of pertonnix

that often is fatal
Complete examination of the various abdominal
Viscera at operation is necessary in order that other
gross pathological lesions may be attended to or excluded. The frequent association of lesions of the
appendix duodenum and gall bladder is well known

supported diodecture and gall bladders swell known in the surgecy of the abdomen as in that of other regions it is often not only desirable but also necessary for success to operate in two stages. In the acute crisis of disease, the immediate operative in direction is clearly the minimal procedure that walf give ralled and save the patient is life. The length of the interval between the preliminary procedure and the radical operation must be determined according to the requirements of the pin on. W. Netze M.D.

jous w verey at b

Ehler F Surgical Complications of Chronic In flammation of the Mesentery (Chrurgische Komplikationen bei chronischer Me entenalentzuen dung) Car Ith Stal. 1939 u 1180

Chronic inflammation of the messnery is a rather surgical condition. It usually runs a slow chronic course with no particular subsective symptoms and becomes maniest only because of its sequence citatrization and shrunkage which lead to kinking and obstruction of the bowel. Only the intramesentent connective it use is involved to the

inflationation never the personeum. The slevized and signoid regions are effected roots frequently. The most commenciate and signoid regions are effected root frequently. The most commenciate is the result of the most commenciate in the result of other indeed to the substitution of the culous but sometimes is the result of other indeed culous but sometimes is the result of other indeed cities, cholelthissis subcutaneous traums and em by once abnormalaties in the dy-deponent of the byone abnormalaties.

mescotery
On the basis of the symptoms three phases may
be distinguished. In the first phase the etiolog cal
factors—radiamation of I jump glands trained
and large hermix requiring frequent reduction—down
mate the protive. In the second phase is most
scare, and bands are formed in the mesentery there
are vague pairs in the abbotione associated in the
meteorysm and tendemess. In the third phase there
are evidences of caute obstruction which bring the
pattent to operation. Vost often there is a volvibly
of the flexure caused by narrowing and plotation of

the mesenteric attachment

The author reports four cases In the first, which was fatal catarrhal inflammation of a persistent Meckel diverticulum led to inflammation of the Is suph stands followed by inflammation of the mesentery with shrinkage which resulted in Linking of the small bowel and ileus. In the second case there was a volvulus of the flexure from contraction of the me entery and cure was effected by permanent colostomy. The author attributes the inflammation in this case to an obstinate constipation. The third case was identical with the second. In the fourth case there was mesentently of a jejunal loop which caused binking Entero anastomosis was followed by recovery The inflammation of the mesenters was attributed to a bilateral scrotal hernia requiring frequent reduction. The hernix were repaired two verrs before the attack of ileus

GYNECOLOGY

UTERUS

Dony troots a case of severe hamorrhage and sposs following diagnostic curettage in a case of severe following diagnostic curettage in a case of severe following diagnostic curettage in a case of severe following diagnostic diagnostic constitution of the state of the severe following diagnostic d

HAROLD C MACE, M D

Beclère 4 Lterine Sarcorna and Roentgenotherspy (Sarcome de Lutérus et roentgenothérapie) Bull Sac d'abil el de ginée de Par, 1929 xviu 683

Bicdent reports a case of uterine sarcoma developing in a woman fifty nine years of age who had pused the menopau e ten years of age who had pused the menopau e ten fifty nine years of age who had years of the pure reached the time of a full promough years of the pure years of the purpose o

In the discussion of this report FAURE and DOUAN cupha ized the difficulty of diagnosing sarcoma both chincally and histologically and advised surgery for all doubtful and operable cases

Sizeov reported another case of remarkable though only temporary hench following irradiation Because of the possibility of sartomatous degeneration of uterine fibroids he advised operation in all cases in which these tumors enlarge after the menopause Harono C Mack MD

ADVELAL AND PERIUTERINE CONDITIONS

cels E Experimental Studies of the Physiology and Biology of the Sex Hormone Carried Out on Parabiotic Animals (Experimentelle Studien an Parabose Tirere under Physiologic und Biologic der Scruishormone) Ach of Onach, 1929 CENSYN 15

The experiments reported by Fels were made on seventy three parablotic pairs of animals fifty three of which lived longer than ten days. Among those that died earlier are included, of course those that were killed for the purposes of the experiment. In most of the experiments (sixty three) rats were used, and in the others muce or rabbits The animals were joined by the abdominal cavities (cochac anastomosis)

When animals of the same sex were united the parabiosis had no effect on the generative glands or sex function as evidenced in female animals hy the vaginal cycle uterus, ovaries and hypophysis and in male animals by the testicles and secondary sex characteristics. The failure of the cestrual cycle in one female animal to affect the other is due to the fact that very large amounts of hormone are neces sary to cause estrus in the parabiotic partner The ovum is not to be regarded as the chief factor regu lating distrus. The differences in the distruction dition of the vaginal mucous membrane of the two parabiotic animals are shown clearly in illustrations Glands of internal secretion which are closely re lated to the generative glands such as the hypophy sis and adrenals also remained unaffected

sis and attentias suo remained unitereted. In parabosos of males and females the testicles always degenerated whereas the oxares failed to the always degenerated whereas the oxares failed to the other testing the control of the con

causes the degeneration In parahiosis of a normal with a castrated animal the results were the same whether the castrated animal was a male or a female. In Fels experiments fourteen males and fifteen females were united to castrates In the normal male united to a castrated animal of either sex the genitalia became hyper trophied. In the normal female the changes con sisted of precipitate ripening of the follicles with the usual secondary effects on the uterus-an increase in the size of the uterine lumen complete obliteration of the mucosal folds a decidual reaction of the con nective tissue cells and occasionally stasis of se cretion with secondary infection. The castrated parabiotic partner was not affected by the sex hormone of the normal animal only occasionally were prohierative changes observed in the vaginal epithelium. The hypophysis and internal genitalia always showed the changes characteristic of cas tration Accordingly the supply of hormone from the normal animal to the castrated parabiotic

animal was sufficient for only the beginning of cestral proliferation of the vaginal epithelium and not sufficient to prevent the eastration atrophy of the uterus. The hypophysis of a castrated female in parabiosis with a normal female retained the char acteristics of castration. The cause of the changes in the genitalia of the normal animal in parabio is with a castrated animal is the hormone of the an terior lobe of the hypophysis of the castrated animal The hormone of the anterior lobe of the hypophysis enters the parabiotic partner more easily than the sex hormone This observation may be of practical importance as it may indicate that very small amounts are necessary for the effect noted or that the hormone of the antenor lobe of the hypophysis is not excreted so quickly. The author rejects the theory of a castration hormone as the cause of cas tration changes. Even though these changes in the castrated parabiotic animal can be stopped or com pensated for by the administration of sex hormone the hypertrophic changes in the ovaries of the normal animal cannot be explained More prohable is the theory that the hormone of the anterior lobe of the hypophysis which has become useless in the castrated animal goes over into the other animal and there exerts its effect on the generative glands which lack the protect on against an excess of hormone

such as is present for example in pregnancy Frudenity the hypophyseal reaction is produced relatively easily in a parabonic animal. Fels proved this by demonstrating that in female parabonic than by demonstrating that in female parabonic animal cansed existing only in that nameal scheme the administration of hormone of the anterior lobe of the hypophysis caused exittil changes in both animals. It was demonstrated also by the fact that in an experiment in which one of the princhous nameals is well ill immutative (seeping 65 gm.) the normal animal showed the changes in the owney. The normal animal showed the changes in the owney. The mothers is therefore again confined by the had

To judge the effects of parabio is on conception and the course of pregnancy it is necessary to differentiate the effects due to the surgical operation itself and those due to the rondition of the specific glands of internal secretion produced by the parabetes.

ings of parabiotic studies

The author's conclusions which confirm the observations of earlier investigators are summanzed as follows

Conception and pregnancy can occur in (s) parabous between two females because in such parabouss the ser functions remain unaffected and (s) in parabouss between males and females only after complete degeneration of the testicles. In parabouss of two females a pregnancy fisted of a formal and a on to arms the sum of the testicles of a formal and a on the service of the still functioning. Conception and pregnancy cannot occur in parabous with a castiacted animal because

the hormone of the anterior lobe of the hypophysis of the castrate causes unphysiological conditions of the genitalia of the normal animal For the same reason an afready existing pregnancy in this para biotic combination cannot be carried to term unless it is far advanced Uterine contractions in the non pregnant parabiotic animal during the labor of its partner have never been observed Therefore the theory of the formation of a toxin during labor is to be rejected Pregnancy in one of the members of the parabiosis causes no changes in the reaction of the other animal whether the latter is a male a female or a castrate. In interruption of an early Pregnancy there is involution of the oyum with slight hæmorrhage from the vagina whereas in interruption of a more advanced pregnancy the embryo dies and is expelled FLESCH (G)

Murard J Peritoneal Inundation from the Rupture of a Menstrual Corpus Luteum (Isoadation péritonéale par rupture d'un corps jusce menstruel) Bull d'mén Soc nail de chir 1920 [1:138]

The case reported was that of a marined sommer seeds on a pain of age in to consulted the author because of sub-autie abdominal pain persisting after an attack of severe diffuse pain as the abdomina which had an alened her the previous might. The pain was not associated with constiting Since the attack no stools and only a slight amount of the attack no stools and only a slight amount of the attack no stools and only a slight similar distribution. The was previously and the second three years previously and to the second three years previously and both had here attributed to appendictive.

At the time of her examination by Murart the patient was slightly pale. The abdomen was flacted and free from meteorism but pure was p essent on the right side below McBurnev's point. The pulse was soo and the temperature 375 degrees C. 1

diagnosis of appendicutis was made.

At operation the pentioned cavity was found full
of bright blood. The origin of the hamorthage was
online in the median portion of the free edge of
the right ovary. The appendix was all ghily shollen
and very vascular. The right ovary and the appendix
were removed. Recovery was unniterrupted.

Histological examination of the ovary revealed a menitual corpus luteum and a small granfia follicle ho letal elements were present. The bled inp was evidently a hamorrhage of the corpus luteum.

Exclusive of those associated with pregnannitrapentonical humoritages of ovarian origin may be classified into three groups according to the stage of ovulation (1) those occurring during maturation of the follicle which are very rare (1) those occurring during ovilation which are also rare and (1) those occurring during the evolution of the meastruit corpus interior Murard quotes Bestagon on this subject. With the exception of cases in which there is a known of traumitation or a prediposition to hamorrhage the cause is completely unknown Pace

were no leading symptoms or gross signs of malig nancy CARL H DAVIS M D

D Alfalnes F An abscess of the Corpus Luteum Rupturing into the Free Perltoneal Cavity Pacumococcal Peritonitis (Abe's du corps saume tompa en péritone libre, péritonite à paeumoco ques) Bull et mém Soc not de chir, 1929, ly 1372

The patient whose case is reported was a girl seventen, lears of age who was suddenly seized with try seize abdomind pain followed by comiting shortegither ten days before she had had a slight sere throat. She had menstruated twelve days be

When she was seen by the author her tempera fure was 39 5 degreec C and her pulse 120 The pan nas most severe in the infra umbilical region biliou vomiting had occurred two or three times The abdomen was flat, but there was respiration only in the upper half. On palpation the supra umbibical region was flexible and almost painless. The whole unfra umbilical abdomen was contracted rigid and rulently painful on palpation. There was cutaneous hyperesthesis Rectal palpation revealed sensitive cess in the pouch of Douglas A diagnosis of acute pentonitis was made and the patient removed to the to pital Her temperature increased to 40 degrees C her pulse to 130, and her respiration to 32 Vom sing occurred twice and the contracture and pain estended upward above the umbilious

At open and solve one unquiested was found to contain about 250 c un of thick put of a chocolate object. This was especially abundant in the pelvis file right ovary was of the size of a mandarin orange and present a jarged orange from which issued put of the same nature as that in the pelvis. The ovary was rescetch between two lightness. Recovery was research between two lightness.

The int all pain, the solitary localization in the copies literin, and the integrity of the tube indicated that the abscess was metastatic Direct examination as well as culture of the pus showed Pseumocrock.

The specture removed was a very voluminous out, the greater part of which was formed by an out, the greater part of which was formed by an irrgular after Sections of the overy showed that the fivour was the compusition which had absessed about the opposition of polynuclears extended among the call and rememts of the corpus tuteum to the sunnedstate persphery of the latter but did not long the terminated of the overland part of the part of the corpus tuteum to have the remainded of the overland part of the part of the

The author cites similar cases from the literature

Fleming A M Clinical and Pathological Report on Three Unusual Ovarian Tumors J Obs & Gynac Brit Emp 1929 XXXI 793

The three tumors described were of the fibromy omatous type but were permeated by small masses of entheloid cells. They were found more or less accidentally. The chinical histories show that there

EXTERNAL GENITALIA

Vagina 4m J Obst & Gynec, 1929 xvm 832

The sample round ulcer of the vagina is a rarelesion. It has been observed only once in a 666 cases admitted to the synecological service of Line Hospital San Francisco. The age incidence is known for only 14 of the 1's reported cases. All but 3 of the patients were over forty years old and 4 of them were over still.

were over sity. There is apparently no connection between this lesion and other pelvic disease, but ma case reported by Burtle and the pelvic disease, but ma case reported by Burtle and the second of the pelvic disease, but ma case in the pattern found. In several case general systemic conditions were present. In 1 of Zahns case is the pattern died with a contracture of the extremities and aphasia which had confined her to a hospital for sity cars. Both of Beutiner's patients had cardiac disease and in 1 of them autory sy disclosed in addition on ulter of the duodenum and exchymotic crossons of the large intestine process of the contract of the patient conditions of the patient and chromose pulmonary tuberculous to of Brathwaite's patients and

r of the author's a marked secondary anamia The ulcer is a chronic lesion In most cases there are few or no associated symptoms but in some the ulcer may cause leucorrhora and bleeding It is generally painless, but manipulation may elicit tenderness. It is characteristically round or oval Its edies are even and sharply demarcated but show no undermining The lesion is very shallow There is no surrounding induration palpation it may be missed altogether. The base is usually smooth and reddened. It may have the appearance of granulation tissue of may be covered by a fibrinous or purulent exudate The surrounding vaginal mucosa appears normal, although Zahn's second case showed extensive ecchymosis and hamorrhagic erosion in a of Veit's cases there was semile vaginitis and in the author's first case there were fine punctate hamorrhagic spots in the vault of the vagina

Of 13 cases in which the site of the ulcer is known, the lesion occurred on the postetior vaginal wall in 13 on the anterior wall in 1 and on the lateral wall in 1 in 6 cases it was just to the left of the midline on the posterior wall. According to Beutiner its frequency at this site 1 due to the fact that this is where the secretions from the occurred canal are poured out.

The lesson is usually single, although in 1 of the author's cases there were 2 ulcers in Browicz case there were 8 in 1 of Braithwaite's there were 4 or 5 which gradually coalesced and in Kaufman's case there were a large number of areas of necrossis.

E L CORNELL M D

MISCELLANEOUS

Asherson N The Relation of Dosage of Radium to Age in the Production of Amenorthma J. Obst. & Gynac. Bril I'mp. 1929 xxxvi. 178

The author reviews the results in the cases of ninety-eight women between the ages of twenty-one years and the menopause who were treated with radium to produce amenorthem

He postulates that in the case of patients be twen pulietly and the menopause who have a normal sized uterus the younger the patient the larger the milligram hour dose of radium necessary to produce amenoprihes.

In not one of eighty cases of menopausal menor thapa treated with radium did carcinoma of the cer vix superview. The author therefor, suggests that in the use of radium to hasten the menopause we may have a prophylactic measure against carcinoma of the cervix.

Attention is drawn to certain sequelæ following the administration of large doses of radium irradia tion

CARL H. DAVIS M.D.

Loeser A The Treatment of Chronic Gonorrhoral Infections in the Female by Subcutaneous Injections of Living Cultures of Gonococci (Le tratement de la gonotorcie chronique de la temme par les injections sous cutanées de cultures vivantes de gonocoques) Bull Ses d'obst at de grate de l'ar 1929 XVIII, 603 Rev frong de gynéc et d'obst 1929 XIII, 732

The treatment of chromic gonorrhoad infections of the female genital tract (indocervicias salpagnis) by the subcutaneous injection of living gonocorch has been carried out by the author in 1 500 cases without demonstrated effect and with cure in from 60 to 70 determined effect and with cure in from 60 to 70 demonstrate of the control of the control of the exception of arthritis acute infections are not benefited no are chouse infections in viving the

rectum urethrs and the glands of the vulva. The organism obtained from a case of acute gonorthora are cultivated on acutes agar and transference for fresh media every forth eight hours so that after three or four transfers pure cultivares are obtained. After the days of growth the culti-ce lose their vurdence and should not be used. A subpension made by adding a c cm. of a physiological belians made by adding a c cm. of a physiological belians made by adding a c cm. of a physiological belians to the contract of the contr

Following the injection the author noted dis appearance of the organisms from the infected area within two weeks accompanied by a reduction in the amount of pus in the discharge. In the majority of cases one injection was sufficient to bring about immunity and cure. Hixoto C Mark KB

OBSTETRICS

PREGNANCY AND ITS COMPLICATIONS

tivarez W C and Hosol K Reversed Gradients in the Bowel of Pregnant Animals Obst & Gynec 1930 xix 35

Many years ago when Alvarez first conceived the gradient theory of peristalsis it occurred to him that much of the nausea vomiting and heartburn of pregnancy might well be due to a reversal of one or more of the intestinal gradients Such a reversal m ht concervably be brought about by an increase in the metabolic rate and activity of the muscle in the lower part of the bowel an increase related in some way to the increase in the metabolic activity

of the privic organs, is Hofbauer has shown the stimulus of pregnancy eads not only to hypertrophy of the uterus hut also to hypertrophy of the muscle in the trigone of the bladder the lower end of the ureters and the vaging It produces marked changes in the blood supply of all of the organs in the peivis and alters their reactions to drugs and the stimulation of senes Such modifications in structure and function ere to be expected as Child has shown again and again that changes in the metabolic activity of one hart of an organism will profoundly affect the

growth and activity of adjacent parts In attempting to put these theories to a test livates years ago studied the gradients in the rate of raythmir contraction and in the catalase content manumber of pregnant rabbits So little difference tom the normal was found that the problem was he sade until more could be learned about some of the other gradients that were then being discovered is normal animals. Recently when the authors succeed d in reversing the gradients of the latent bened and imitability by artificial stimulation of the muscle at the lower end of the sleum (by the inject on of a few drops of turpentine) it occurred to them that these gradients might be reversed also by

ludies made on pregnant rabbits showed that the rate of rhythmic contraction in the small bowel was slightly slowed but there was no change in the gradient from the duodenum to the ileum gradient in irritability was flattened in ome of the animals and teversed in others. The gradient of latent penod has always reversed. Conduction was somewhat the gradient penod has always reversed. somewhat changed in that waves moving orad traveled a little faster than tho e moving caudad

Penstaltic rushes were inhibited. They were hard to start and they became slower instead of faster as they should normally

In puerperal animals the bowel was unusually intable but the gradient of irritability was normal The gradient in the latent period was reversed

In sickly animals some of the gradients were reversed or flattened while others remained normal This may be a factor of safety enabling the organism to continue with digestion at times when there is a marked tendency toward reverse peristalsis in the howel

The authors express the hope that a drug will be found which will restore gradients to normal The difficulties in the way of finding such a drug are dis cussed

It is suggested that reversal of gradients may occur in pregnant women and may account for some of the nausea and vomiting of pregnancy

It is suggested also that the dilatation of the ureters so commonly seen in pregnant women mas be due to a reversal in the ureteral gradient from kidney pelvis to bladder

Jerlov E The Hæmoglobin Deficiency During Pregnancy and a Suggestion for the I revention of Anamia (Ueber den Haemnglobinmangel wach rend der Graviditaet und ein Vorschlag zu Anaemie prophylaxe) Acta obst ct gynce Scand 1020 vui 356

The author reports determinations of the hæmo globin percentage in the blood of 1 143 pregnant

women The cases are grouped as follows Group s (not treated with iron hamoglobin above to per

cent) (a) 707 cases examined once (b) 141 cases examined

twice or more frequently Group 2 (treated with iron hemoglobin less than 70 per cent)

(a) 175 cases examined once (b) 120 cases examined twice or more frequently

This grouping shows that in 295 cases 25 9 per cent of the total number the hamoglobin was below 20 per cent When the average value for each month of pregnancy was calculated it was found to fall progressively as is shown in the following table

Month of pegnaticy	A mber of determ a tions	Ave age value
3	42	83 0
4	47	78 4
5	44	78 6
	45	75 3
7	105	75 6
8	\$82	73 9
9	417	73 2
10	392	71 1

Of the 111 cases in Group 1 in which 2 or more de terminations were made 64 per cent showed a moderate decrease as the pregnancy progressed In 19 per cent the value remained constant, and in 17 per cent it was somewhat decreased In 27 per cent of the cases the percentage was between 40 and 50 in 13 9 per cent between 50 and 60 and in 83 4 per cent, between 60 and 70

The effect of treatment with iron iron and arsenic or fresh vegetables was evidenced in Group 2 by an increase in the harmoglobin in 90 per cent of the cases. However, in spite of the treatment the value remained constant in 5 per cent and decreased in 5 per cent.

The author advess treatment of all pregonant women whose harmogloan value has fallen release the normal for the month of their pregnancy because he regards it of great importance to present the amenda which is so common in pregnancy and always term nates in more or less pronounced bleeding and because an untreated anormic woman will be handed account of the condition of the condition as infection or thrombosis during the puer perum

Shajaa K. Variations in the Cell Volume of the Blood in Fregnancy Toxemia and in Labor Acta obil et synce Stand 1929 vin 371

The author made 800 determinations of the cell volume of the blood at the end of pregnancy and during and after labor. These included repeated determinations in the cases of 178 women and single determinations in the cases of 80 women.

The results showed that during pregnancy the cell colume was decreased. In 120 normal women at the end of pregnancy it varied between 275 and 445 per cent (average 364 per cent) whereas in normal non pregnant women it was about 45 per cent. The decrease was caused by an increase in the amount of plasma in the blood.

plasma in the blood

When the cases studied were grouped according to
the degree of intorication present a certain segu

lants in the variations became apparent.

In women without any signs of pregnancy into ucation the cell volume remained unchanged during the last weeks before labor and showed only a slight increase or none at all during labor.

In women with albuminum during labor the cell volume usually increased during the course of labor

As a rule the increase was moderate

In women who showed signs of intowation during pregnancy (without eclampss) there were marked variations in the cell-olume which began with thick ening of the blood. The thickening of the blood arriely ternained constant for any length of time he ing soon followed by more or less thuning. It usually appeared before labor and lasted during labor.

In all cases with rather marked thickening of the blood there were increasing symptoms of notices to and when marked thinning of the blood octive drive are checally a pronounced regression of the symptoms. Conversely all cases with distinctly, increasing or decreasing a implomes of intendication showed corresponding changes in the concentration of the blood.

The most marked thickening was found in threat ened eclampsia This amounted to 23 per cent be fare labor and 30 per cent after labor. The greatest thinning before labor (25 per cent) was observed after intercurrent threatened eclampsia. Judging from the higher cell volumes noted during the attacks and the great thinning after cessation of the attacks the factoring of the blood is much more marked in eclampsia than in threatening eclampsia.

It appeared that in eclampsia the blood under went very rapid changes in its concentration being thickened before during and just after the attacks but thinned to 25 per cent between the attacks. After cessation of the attacks there was a very rapid thinnance.

In 27 cases with more or less marked signs of in toucation a thickening of the blood was found at the beginning of labor but thinning followed an in jection of morphine

In about half of the cases without super of pregnancy into mentation the cell volume sucreased uninancy into mentation the cell volume sucreased unipliated in the case of the cell volume in the approached as per cent. A lost of about too cent of blood during abore had no interest, effect on the cell volume. The behavior of the cell volume in these cases in to be regarded as entirely normal as it restored the physicological relationship between the blood compactless and plasma after the termination of the pregnancy. In the group of cases with allow minum during lator there were only a which should such behavior and in the group with marked prenancy intorication there was none.

In all other cases a marked transent thinning of the blood appeared in the first few days alter labor even when the loss of blood during labor had been minimal. In almost all of the cases the thinning wat much more than was necessary to compensate for the blood loss and is evidently to be regarded at a compensation or possibly a hypercompensation of

a previous thickening of the blood

A foreign the same of the cell volume in created rapidly in the cases without signs of about cation but in some of those with albumnum during labor the increase occurred less rapidly and in the cases with marked as imptoms of intoncation it was still slower. In the cases with threatened eclampia the cell volume twelve days after delivery was never the cases of eclampias. But the cases of eclampias the cell volume twelve days after delivery was never the cases of eclampias. The cell volume twick of the cases of eclampias the cell volume twick of the cases of eclampias the cell volume twick of the cases of eclampias the cell volume twick of the cases of eclampias the cell volume twick of the cases of eclampias the cell volume twick of the cases of eclampias the cell volume twick of the cases of eclampias the cell volume twick to the cases of eclampias the cell volume twickly following tabor but showed failing values for from twenty to fifty days.

This shorter or longer persistence of the usual equels of pregnance, instruction and alluminous seemed to play no part in the causation of low red workings. Apparently the decisive later was the severity of the intoversion. Even the more estimated that the properties of the propert

From these findings it appears that the variations in the concentration of the blood which were found

is so many cases at the end of pregnancy were caused by the intoxication of pregnancy. It may be as simed that the thickening of the blood during labor may be attributed to the well known effect of labor in aggravating an intoxication already present or causing the development of an intoxication. In the same way the thinning of the blood after labor may he related to cessation of the into ucation Significant of such a relationship is the fact that in post partum eclampsia thinning does not occur until the attacks finally cease

The observation that, after the administration of morphine thickening of the blood ceases and may be followed by thinning is attributed by the author to tchef of the intoxication and is in agreement with the favorable effect exerted by morphine and chloral in the Stroganoff treatment of eclampsia. It seems to indicate that the morphine not only decrease the tendency toward convulsions but has a favorable effect also upon the intoxication itself

LOUIS NEUWELT M D

Stander H J Eastman N J and Harrison E P H Jr The Acid Base Equilibrium of the Blood in the Late Toxemias of Pregnancy Im J Obel & Gyn c 1930 x1x 26

The article is based upon total blood serum elec trelyte studies in which the hydrogen ion concen trat on and the organic acids were determined electrometrically. The authors draw the following con dusions

I Normal gestation is accompanied by a reduc ton in the total hase amounting to about 8 mm With this reduction in the total base there is

adecrease in the amons serum protein and bicarbon

I The acidosis of normal pregnancy denoting an accumulation of abnormal acids 15 a misnomer It would be more correct to speak of a compensated alkalı deficit of pregnancy

4 Low reserve kidney and nephritic toxemia complicating pregnancy show the same changes in acid base balance as normal pregnancy except when

the nephritis is severe enough to produce uramia § Eclampsia at the time of convulsions and coma is associated with a true acidosis due to an uncom

Pensated alka'ı deficit, as demonstrated by a defi ate increase in the hydrogen ion concentration 6 This acidosis should be regarded as a result

of the eclamptic convulsion and is sometimes severe enough to cause death by itself

7 General anæsthesia is contra indicated in the treatment of eclampsia as it still further increases the acidosis due to the disease

8 It is possible that the high fetal mortality in

eclampsia may be due in part to the acidosis 9 Insulin therap, is of definite help in relieving the acidosis of eclampsia but because of the marked the compensated alkalı deficit it may be advisable to attempt to treat the acidosis much more radically

as for example by the intravenous administration of sodium bicarbonate E L CORNELL M D

LABOR AND ITS COMPLICATIONS

Fruhinholz, A The Cause of the Onset of Labor (A propos du déterminisme de la parturition) Presse ened Par 1070 XXXVII 1525

Studies on ammals suggest that the onset of labor depends in part on the combined action of the hor mones of the posterior lobe of the hypophysis and the ovary The hypophyseal secretion inhibited in the first part of gestation by the secretion of the cor pus luteum tends to re appear toward the end of restation simultaneously with re establishment of the follocular secretion of the ovary

Empirical chinical observation indicates persist ence of ovarian function during pregnancy During the first three or four months and toward the end of gestation this function becomes very evident being manifested by painful uterine contractions and dvs uria at the dates of the first two or three menstrual periods that would have occurred in the absence of pregnancy a false beginning of labor a month before term rupture of the membranes and increased vari nal discharge. The rhythm of the ovarian function may be a factor establishing the date of parturition The duration of gestation is equivalent to ten normal menstrual cycles. If the menstrual cycles are nor mally long the gestation may appear to be pro longed It seems that a hormone is elaborated in preparation for labor as in preparation for men struction

When once initiated labor is maintained by mechanical irritation of the uterine contents exerted especially in the lower segment of the uterus

ALBERT D DE GROAT M D

Hirst J C An Analysis of Eighty Four Consecu tive Cosarean Sections Am J Obst & Ginec

1029 TVIII 773 The eighty four casarean sections reviewed by the author were done in 3 070 deliveries. The preoperative preparation did not include the administration of morphine. In most instances anaisthesia. was induced with nitrous oxide oxygen with a mini mal amount of ether Local anasthesia was em ployed in only z cases When the operation was elective there was no preliminary cervical dilata No intra uterine packing was done in any In neglected cases and those in which an examination had been made mercurochrome gauze vaginal packing was introduced while the patient was on the table and removed as soon as the operation was completed. All incisions in the fundus of the uterus were sutured with a I iper (or modified) special subscrous water tight gut suture which assures freedom from distention and the formation of adhesions The abdominal wound suturing was the usual procedure with the use of derma skin and 3 or 4 alkworm gut tension sutures When the operation was well begun aseptic argot and pituitrin were administered

The high classical casarean section was performed 34 times the low classical operation 20 times, the Kerr cervical operation 14 times the Beck revocal operation 12 times marsupilization twice, and the Porto operation twice

The maternal mortality was 8 33 per cent. One death was caused by abruptio placente and one by shock. Three per cent of the deaths were due to peritonitis, and 2 per cent to eclampsia. The fetal

mortality was 20 per cent The total februle morbidity was 57 per cent If causes other than puerperal fever are excluded at was as per cent

The total incidence of wound complications was 10 7 per cent E I CORNELL M D

Grosse 4 The Results of the Low Cassarran Sec tion (Les résultats de la césamenne basse) Re-

franc de ennec et d'abst, 1929 xxiv 721 The author reports the results of low casarean sec tion performed on account of contracted rachitic pel vis in twenty three cases low implantation of the placenta in eight cases to amia of pregnancy in one case and deformity of the pelvis and lower ex-tremity in one case. In two cases bysterectomy was necessary in addition - in one on account of fibrosis

uten and the other on account of a fibroid which could not be enucleated. In two cases a low error rean section and in one case a clas stal casarean sec tion had been done previously. In four takes the cresarean section was performed from nine to forty hours after rupture of the membranes Of the two deaths in the senes of cases one was due to asp a tion pneumonia and the other to senticamia of un known origin occurring twelve days after hysterec tomy In the cases of twenty-eight of the thirty-one patients who recovered the postoperative course was afebrile In the three others there were elevations of the temperature due to malaria gonorrhoal sal pingitis and antepartum infection respectively. All of the infants were born alive and all urvived except the child of the noman with toxem a

The author recommends spinal anæsthesia for carsarean section because in maintaining utenne contractions it has a hamostatic effect. He con siders the low operation no more difficult than the classical operation and definitely safer in potentially injected cases Because of the absence of adhesions Subsequent sections can be performed easily HAROLD C. MACK. M.D.

GENITO-URINARY SURGERY

ADRENAL KIDNEY, AND URETER

Porter M F, and Porter M F Jr Report of a Case of Paroxysmal Hypertension Gured by the Removal of an Adrenal Tumor Surg , Gynec 5 Obst 1930 1 160

The patient whose case is reported a man thirty une years of age had suffered for three months from peculiar attacks associated with a sensation in the ep gastnum similar to nausea. The attacks occurred without apparent reason usually while he was in bed and lasted about half a minute during which ime his color became a 'sickly green' Between the attacks he felt well. He discovered that inclining slightly forward and to the left would precipitate an attack Dunng an attack his blood pressure in cressed from 110 to 200 in ninety seconds, his pulse slowed down to 55 and became very forcible his color became ashen and he felt very ill This con duon lasted four minutes and at the end of fifteen ninutes he felt as well as ever

A diagnosis of adrenal tumor was made. At ex ploration through a vertical midline epigastric in usion a slightly movable and slightly retroperatoneal slobular tumor was found in the renal region on the nght side A transverse incision was therefore made for better exposure The tumor was easily removed It had no pedicle and was completely encapsulated The operation required two hours The patient was hadly shocked for twenty four hours, but was able to leave the hospital fifteen days later. In the seventy four days which had elapsed since the oper shon at the time this report was made he had had no further attacks

The tumor was firm smooth and elastic and felt like a tense cyst Microscopic examination of sec tions proved it to be an alveolar adenocarcinoma of the adrenal gland probably cortical. The hospital pathologist reported it as an adrenal hypernephroma Eight cases of paroxysmal hypertension have been

teported In six it was due to malignancy Malig hant invasion of glands usually results in hypo function rather than hyperfunction but in cases of chromathn celled tumors the reverse is the rule

BENJAMIN F ROLLER M D

Papin E A Study of Renal Pain Pains Provoked by Palpatlon Palnful Points in Reno Urereral Affections (Etude sur la douleur rénale Douleurs prosoquées par la palpation Points douloureux dans les affections réno uréterales) Arch d mal d reins el d organes genito urinaires 1929 1V 253

When a floating kidney low enough to he grasped in both hands is slipped up like a cherry stone hy pressure a peculiar painful sensation comparable to that caused by pressure on the testicle is produced

This pain is of renal origin, but it is doubtful whether the kidney is the source of any of the other poinful sensations attributed to it on palpation One cannot be sure whether it is the kidney or the lumbar or infracostal region which is sensitive to the pressure although when a large suppurating kidney is held between the hands it would be difficult to contend that what is felt is not true renal pain

In reno ureteral disturbances the painful points are of two kinds those situated on the course of the dorsolumbar nerves and those on the course of the ureter The ureteral points are three the superior the median and the inferior. The superior ureteral or para umbilical point is situated on the abdominal wall on a horizontal line passing through the um hilicus toward the external edge of the great rectus muscle hut inside it This point is constant in pyelitis and seems to correspond to the anterior perforating branch of the eleventh intercostal nerve The median ureteral point seems unquestionably to correspond to the ureter itself as does the lower ureteral point

The painful points in the course of the intercostal nerves and of the lumbar plexus are the costover tehral the costolumhar the subcostal the supra intraspinous the inguinal the suprapubic, and the huttock or lateral supra thac points

Renal pain which starts in the renal parenchyma or the renal pelvis is transmitted to the nerve centers hy way of the renal plexus and thence is reflected to the course of the dorso abdominal nerves. These painful points permit indirect determination of the sensitiveness of an internal organ which in corpulent subjects cannot be explored directly

The zones of Head are the cutaneous zones which correspond to the visceral zone of the same metamere The reflected pain occurs in the form of neuralgia of the parietal nerves It develops spontaneously and is increased by movements effort and pressure. In cases of very severe or prolonged excitation a cutane ous hyperesthesia may develop Sometimes the hyperæsthesia is so marked that the patient cannot bear the contact of the bed clothes Usually it is necessary to search out this hyperæsthesia by slightly rubbing or pinching the skin

In renal diseases contraction of the parietal muscles and of the cremaster is observed. The beneficial action of dry cupping and scarification of the lumbar region in renal diseases is explained by the reflex vasomotor stimulation of tissues arising from the same metamere Reflex disturbances of a trophic nature also occur These always appear in corresponding zones of the wall

Spontaneous pain in renal disease may be continu ous or occur in more or less acute attacks. Acute apyretic attacks include (1) the renal colic in renal hithauss, hydronephrous floating kidney and other conditions such as treat luberculess and caner, or read strangulation due to torsion of the pedicle and (3) neuralga of read organ. The febrile acute at tacks include (1) attacks of retention occurring in such conditions as pedicinephritis with distention pronephro is and hydronephrous and (3) infections perimephritis bydreing or not on the formation of a perimephritie absence, Tayan describes the pain an each of these disturbances.

Fisch and Verlac The Elimination of Ingested Colon Bacilli by the Midney Experiments on the Rabbit (Elimination par it ten du colabacille ingéré Expériences sur le lapin) J d'urel méd et chir 1979 xxvii 578

Food contaminated with colon bacillus cultures was fed to a rabbit Oxamide to the amount of 2 gm was added to the food mixture to favor renal local ization. After eight days signs of infection appeared and the animal was Lilled Cultures of sena casa blood made at this time were positive for the colon bacilius At necrops, the stomach and a large part of the colon were found distended and filled with fluid food. The rest of the large intestine was collapsed and empty. The walls of the a omach and of the large intestine in both the distended and the collapsed parts were greatly thickened. The amali intestine was empty presenting slender and trans-parent loops. The bladder was distended and its wall was thickened. The urine obtained on puncture of the hladder was turbed because of the presence of salts but microscopic examination showed it to be free from pus and to contain few colon bacille. Three small stones were found in the Lidney These were

attributed to the oxamide Microscopic examination of the large intestine showed extreme development of the lymphoid layer in the dilated portion numerous leucocytes passing through the epithelium at certain points in the glands and inflammatory leucocytic ordematous re actions at the center of the follicles In the Lidney slight permascular sclerosis and desquamations in certain areas of the pelvas were seen but no inflam matory lesions. In the suprarenals numerous colon barilli were found in the lacerated zones Colon ba calls were present over a large part of the surface of the inte-tinal mucosa. They were found also in the mucous and submucous tissues but not in the mus cular tissue. In the cross sections of the kidney the course of the colon bacillus could not be followed as the bacilli were disseminated from the cortical region

to the pelvis

From the anatomicopathological point of view the
tissue was most injured where the basift were in
Closest contact with it in the intestine. The kidney
presented no pronounced lesions and no loco of supparation. The courte taken by the bacillus could be
traced from the intestinal mucosa and submucosa to
the blood thence into the canals of the read paren
chymn and thence into the bladder name. I jebmethrits was not demonstrated no priss in the unner

methrits was not demonstrated no priss in the unner

The colon bacillus in the bladder unine represented only the elimination of the micro organism which had caused a generalized infection with positive blood cultures

FLORENCE A CAPENTER

Thomas G J Renal Tuberculosis J Am If
Ass 1930 xxx 219

From the study of a large number of case the author has come to the conclusion that read tuber culous is secondary to generalized tuberculoss. He states that for the study of the early reral is on of tuberculous the patient should he under observation to the culous the patient should he under observation that the kidney becomes infected. In the subson that the kidney becomes infected. In the subson of cases read tuberculous is builderal.

To prove the presence of a non destructive taber calous infection in an apparently sound sludge; in peace extensions infection in an apparently sound sludge; in peaced extensions are necessary. Removal of the peaced extension is a peaced extension of the control of the contro

Salleras J. and Vilar G. Spontaneous Renocolic Fistula Caused by Renal Tuberculosis. Fyelo graphic Diagnosis. (fistula renochica spontana por tuberculosis renal diagnóstico pielográfico) Se mana mili 1020 EUN 1135

The technique of pyelography has been so per fected that the procedure can be used without danger even in renal tuberculo is. The authors have obtained excellent roentgenograms of secondary mal formations of the calyces from ulceration of the panulis or exception of the pyramids.

The fistula between the right kidney and the colon which is reported in this article was found in a woman twenty years of age On making the first pyelographic examination the authors were sur prised to observe immediate intestinal colic and evacuation. The plate showed that the sodium todide had poured into the descending tolon and rectum The kidney was greatly deformed and a tract pa sed from its lower pole to the first part of the ascending colon. In another pyelographic examination made a week later after evacuation of the intestine 180 c cm of the contrast fluid were in jerted The plate again clearly showed the fistula from the lower pole of the Lidney to the colon A reflux of the contrast medium occurred through the crecum into the small intestine

The patient gave a history of acute inflammation in the right flac fossa which was thought to be acute appendicuts. The authors believe that this was due to perforation of the renal capsule. The reputie into

the intestine was not noticed. The authors assume but a plaque formed over the opening and later became absorbed, intestinal disturbance being theretopresented.

Subcapsular nephrectomy was done and was not followed by a lumbar fistula AUDREY G. MORGAN M.D.

keys E L Operation on the Single Kidney Es pecially for Stone J Am M Ast 1930 xxxv 152

The suthor reports in detail six cases of single bidey in which he performed a successful operation on the remaining kidney. The purpose of sixtle is to show that the surgeon never in cases of sixtle is to show that the surgeon never in cases of sixtle kidney as the immediate reaction and end tradit small, which but kidneys are present as which both kidneys are present.

JOHN G CHERTHAM M.D.

O Conor \ J and Johnson R II Ureterocele

J Ural 1930 xxm 33

This report is based on a series of mineteen cases of meteroccle occurring between the ages of mineteen

aslastly can Thelve of the subjects were women. The suthorn make a definite distriction between meterocle and prolapse of the ureteral mucosa five summarie the various theories as to the case of ureterocele. From the findings in their cases they conclude that the condition is due to a combination of stenosis of the ureteral orifice and congratual weakness of the aurrounding mus

rult and connective tissue elements. The symptoms in the cases reviewed were usually those of unterfal obstruction plus infection. The statment consisted in widening of the ureteral ostum by shitting or electrocognitation followed by

histematic dilatation
In two of the cases there was such advanced renal
distruction that nephrectomy was necessary

Hant I C. The Necessity for Operations on the Uteter Including Ureterectomy Subsequent to Nephrectomy J Urol 1930 2831 43

Clinical expenience substantiates Latchem's oh senations for rarely are operations on the ureter required subsequent to nephrectomy for extensive

w'ettoms of the kidney
It would seem that the extensive involvement of
the uter in renal tuberculous should occasionally
provide indications for subsequent ureterectomy but
there ence has shown that the ureter like the bladder
nichy means infected after the removal of a tuber
close to many subsequent of the removal of a fuber

coloss hades

Andrea Marco Mar

or total ureterectomy simultaneously with nephrectomy removing with the lades, enough of the urreter to include the Experience has shown that a given good results represence has shown that a ureteral stone persisting after nephrectomy is often the source of pyrus and is one of the most frequent indications for surgical intervention for pyuria after

nephrectomy
H pernephroma so called usually progresses hy
direct invasion of the ludney perirent lissues, and
renal vein and rarely involves the ureter. The
author cites two cases in which extension occurred
to the ureter and ureterectomy was done subsequent
to nephrectomy because of harmaturia from the
ureter. Involvement of the ureter secondary to the
primary renal lesson was found.

In cases of papillary epithelioma of the renal pelvis complete underections including the inframural portion of the under and performed simultaneously with nephrectoroy gives a hetter prognosis than nephrectoms with subsequent underections.

GENITAL ORGANS

Lowsley O S and Duff J Tuberculosis of the Prostate Gland Ann Surg 1930 xc1 ro6

Tuberculosis of the prostate is usually secondary.
Ordinarily surgery is not indicated. The evacuation
of a tuberculous absects of the prostate is to be
avoided when possible as it is apt to be followed by

sinuses which heal slowly or not at all In the non operative treatment, the authors use tuberculin unless the patient is suffering also from active pulmonary tuherculosis This is employed as an adjunct to hygienic dietetic and rest treat ment mercury vapor quartz light therapy, helio therapy, and the indicated urological treatment Koch's old tuberculin is used It is supposed to cause an inflammatory reaction at the site of the disease and thereby promote fibrosis Serial doses begun in small amounts are slowly increased until evidence of a local focal or constitutional reaction occurs The dose is then reduced and continued with a cautious increase until another reaction occurs when it is again reduced and continued as before The usual beginning dose is 0 1 c cm of a 1 10 000. 000 dilution of the tuberculin The injections are

gue a subcutaneously

In the preparation of the serial dilutions seven
where the preparation of the serial dilutions seven
does must be series as stoppered bottles are used
does must be series as stoppered bottles are used
does not be series as stoppered bottles are used
does not be series as stoppered bottles are used
due to the series as a stoppered bottles are
due to the series as a stoppered bottles are
been added The bottle is the shaken
well, a cern of its contents when the shaken
well, a cern of its contents when the same
are the series are the same procedure is re
text in a refrigerator. Fresh dilutions are made
about every two weeks during the summer and
monthly during the writer.

The authors have found the injections of tuber culm very beneficial and never barmful BENJAMEN F ROLLER M D

Minet set II Non Tuberculous Vesiculitis (Les vésiculites non tuberculeuses) Presse méd Par 1920 YETVII 1407, J durol med et chir 1929 XXVIII 478

Since the appearance of the classical thesis of Guelhot in 1883 little has been added to the pathology of the seminal vesicles but in America some new theories have been suggested regarding the relation of the seminal vesicles to systemic infections particularly infectious arthritis Certain surgeons following the lead of Fuller have attacked the vesicles surgically, draining or extirpating them More recently antiseptic injections have been made with results reported as excellent

The cause of seminal vesiculitie is alway's bacterial The non infectious forms described in the past do not occur Guelhot believed that nearly all cases were caused by the gonococcus This theory has been confirmed by cultured methods but it is known that after from two to three years the gonococcus gives place to secondary invaders. Smith and Morrissey were unable to cultivate organisms from vesicles that had been diseased for a long period Next to the gonococcus the most common agents of infection are the standy lococcus streptococcus colon bacillus enterococcus pyocyaneus diphtheroids pneumococcus bacillus typhosus and meningococ

cus Acute inflammations of the seminal vesicles may be catarrhal interstitial or suppurative with extension to the surrounding cellular tissue. The acute inflammation may become chronic resulting in chronic catarrhal chronic suppurative or fibrous seminal vesiculitis The fibrous type succeeds the suppurative type When the surrounding cellular tissue is involved adhesions are formed to the

neighboring pelvic organs The symptoms of acute seminal vesiculitis are usually those of a urethrocystitis frequent painful micturation terminal hamatura and pyura and perineal pain. When suppuration is present there is fever In some cases honever these symptoms may be very slight or entirely absent. On rectal palpa tion the vesicles may be merely sensitive to pressure without being perceptibly altered or they may be found enlarged and soft or definitely distended. It may or may not be possible to evacuate them under When a perivesicular phlegmon has formed the prostate and vesicles are masked by a boggy area or by fluctuation

The symptoms of chronic vesiculitis are extremely variable. The most characteristic are hamospermia and recurring epididy mitis. The positive signs de pend on palpation microscopic examination of the secretions, and endoscopic eramination of the posterior urethra

Most important is the prevention of seminal vesiculitis by proper treatment of the original use

When the condition is once established the classical methods of treatment should be employed and supplemented by protein therapy and chemo therapy The use of vaccines is usually disappoint mg and may even be dangerous When suppuration occurs meision of the vesicle is justified Especially the hæmatogenous form demands early evacuation There is usually also an abscess to be opened

The treatment of chronic vesiculitis should be directed to the foci that maintain the condition which is usually to be found in the posterior urethra There may be a stricture or a bladder or kidney affection Conservative local treatment consists essentially of massage and diathermy and is suffi

cient in the majority of cases

The operative treatment includes injection of the vesicles by the vas (Beifield) or the ejaculatory duct (Marck Luys Young) puncture vesiculotoms and vesiculectomy In cases with retention and fever c) stostomy is sometimes indicated Injection of the vesicles widely employed in America has met with opposition in Europe Opinions as to its results dif fer widely but because of the cures of rebellious urethritis recurring epididymitis and rheumatism that have unquestionably been obtained by it it deserves consideration

Palhatry concrative treatment includes vasectomy. epididymotomy epididymectomy and cystostomy ALBERT F DE GROAT VI D

Gibson T E Idiopathic Gangrene of the Scrotum I Urol 1930 xxm 125

Gibson reports in detail a case of so-called idiopathic gangrene of the scrotum characterized by a sudden onset and extreme prostration. The gangrene spread rapidly through the superficial tissues Ex tensive incisions were made in the involved tissues and large quantities of pus and gas were evacuated The patient died four days after the onset of the condition Autopsy failed to reveal a cause for the disease

The author reviews 206 cases collected from the literature. He believes that there is a close relation ship between this condition and urinary extrasa sation Although in his own case cultures failed to reveal the presence of anaerobic organisms be believes that such organisms are the primary in vaders The mortality in the cases collected from the literature was 26 7 per cent

As treatment Gibson advocates multiple and ex tensive incisions tragation with Dakin's solution and the use of anaerobic sera and antitoxia

The article is supplemented by an extensive IRVING J SHAPRO M D bibliography

MISCELLANEOUS

Vintici V and Constantinescu N Aseptic Pyurlas (Les pyunes aseptoques) I d'urol mil et chir 1929 xxviii 537

The authors review ninety three cases of pyuna They call attention to the fact that a leucocyturia may easily be mistaken for aseptic pyura. The differentiation must be based on the obsractor of the learoeytes and their grouping rather than on their maker. In the control of the contro

Pyura a the result of inflammation of the unnary tract produced by destruction of the white blood cells in the phagocytic struggle and in the inner itself. Other substances heades bacterial toxins that drow the formation of pix are the salts of mercury crotion oil ammonia antipyrine silver nitrate the salts of podne sodium eblonde and therebeating.

aspite py ura of bacteral origin may be explained only by (1) the rupture into the unnary passages of a dosed renal or pararenal pocket containing cold use in which the bactera have been destroyed or (1) affirst levium. The first possibility is difficult to (1) affirst levium. The first possibility is difficult to the state of t

bacterial origin are false aseptic pyurias Tours are next considered Endogenous tours of cellular or gastro intestinal origin may be elim insted in large quantities in the urine When this occurs the urine appears fermented and has a fortid odor hut there is no trace of leucocytuma The renal cells may undergo anatomicopathological changes but there is no pyuria. As soon as the bacteria that have provoked the intestinal fermen tation appear in the urine or become localized in the unnary tract pyuna occurs but it is not aseptic pyuria Exogenous touns of bacterial origin (in diphtheria for instance) act on the kidney provoking congestive lesions and lesions of the glomerulotubular apparatus The action of the endotoun differs in rilro and in 1110 In tiro it cannot be separated from the action of the bacterium. Chemical poisons may determine either necrotic lesions with afflux of leucocy tes or atrophic or sclerotic lesions. In neither case can one speak of pyuria Mechanical irritation can produce if not manifest pyuria at least an abundant leucocyturia. The mechanism must be sought in prolonged irritation such as occurs in the course of nephritic colic or during the continual discharge of gravel This mechanism was not dem onstrated in the authors cases. As a rule pouria to a manifestation of infection. False aseptic pyuria occurs in tuberculosis of the kidneys pyclone phritis and renal lithiasis. In the two latter con ditions it may be intermittent. The authors found it in a case of polycystic kidney

FLORENCE A CARPENTER

Fisch J The Intestinal Phase of the Colon Bacil
lus (Stade intestinal du colibacille) Arch urol
de la clin de Necker 1920 vi 445

Beganing with the studies of Pasteur Fisch first reviews the investigations which have heen made to date on the action of the colon bacillus on the body particularly the effects of its towns. He then describes the experimental work on rabbits done by himself and Verhae with regard to the effects produced at a distance by soluble substances elaborated by the colon hacillus in the intesting.

Acting on the nervous centers some of these substances provide vascollatation or vasocon striction whereas others factor negative or positive chemotatus aiding or opposing diapedess. First affect the intestinic itself and after passing into the circulation evert an influence on the general condition through the nervous system On the excretory apparatus they have a direct action which favors the localization of infection

In the intestine the soluble substances elaborated by the colon bacillus cause paresis or paralysis through irritation of the splanchine. By their in fluence on the vasomotor nerves of the intestinal vessels they facilitate their own passage into the circulation and also the passage of the bacilli

Their effects on the nervous system are complex In the experiments reported they varied widely with small differences in the quantity of culture injected The injection of o 5 c cm into the margin al vein of the ear of a rabbit of medium weight resulted in an immediate strong reaction lasting two hours A rahhit which received 0 75 c cm presented a still more pronounced hyperexcitability at first but later developed astbema followed by paralysis of the posterior extremities lasting three days Blood withdrawn two hours after the injection from each of these ammals proved negative on culture. In a rabbit which received a c.cm the reaction was much more accentuated than in the others Spas modic cough developed accompanied by plaintive cries. The animal was killed without waiting for terminal manifestations

The action on the kidney of the soluble substances claborated by the colon baculus may produce variations in secretion. In one of the expectations are secretion in one of the expectation of the kidney observed. In general however, the bladders of bacterial for the secretion of the color of

In claused cases without generalized infection shown by posture blood cultures the material shown by posture blood cultures the first of a similar activity on the part of the bacilias in the intestina even standous. The intestinal evacuations are usually fairly regular but are in evacuations are usually fairly regular but are in or a metal. The patient compliance of sometimes of the contract of a metal and a particular particular and a metal to the particular and the contract which is the contract of the

analgesia of the extremutes hyperextability of the reflexes, dorsolumbar pain headathe wark memory and emotional disturbances. Spa ms of the renal pelvis are manufested by turbidity of the unner after fatigue exposure to cold or a change in the diet. The time is irritating and may produce erosions resulting in cystalgia. The spasms may be so violent as to cause a true retention with the symptoms of pyelonephitis aecompaned by a rise in the temperature.

In the biddler the irritation owners in the region of the neck. Harmatura may result. The unnew shows cridence of the passage of irritating substances it may not be actually turbid but it contains small corpuscles in suspen ion. The irritation is made to the large proportion of substances in solution or the pre-ence of substances that solution or the pre-ence of substances that the substances in contact with the resuccious freedom to the contact with the process freedom to all their tepetated chammature may provide suppuration. It is thus that the products of the colon badillus in solution or cristillated prepare the triguest of the lodgment of the badilli and the development of infection.

The article is supplemented by an extensive bibliography FLORENCE A CARPENTER

Fisch J The Circulatory Phase of the Colon Bacilius (Létape sanguine du colibacille) Arch urol de la clin de Necher 1919 vs 457

The rolon bacillus is recognized as the most fre

time it is most generally believed that the organism reaches the kidney by way of the blood stream Nevertheless blood cultures are negative. To explain this fact the author goes back to observations and experiments he made in 1012. In cases of elevation of the temperature in the puerperium in which the blood cultures were negative he discovered in the blood motile bodies of a shape which suggested that they might be bacilli diminished in size deformed or fragmented In experiments in which he placed colon bacilli in a phenol solution he found that the bacilli became transformed into bodies with a shape similar to that of the bodies discovered in the blood in the cases of puerperal infection. In some of the tubes these bodies proved capable of regeneration and subsequent cultivation. The circulating blood differs from blood in vitro in that it possesses an aptiseptic property which appears to be particularly effective against the colon bacillus

Herb, assume; that the rolon hardist entrong the creatation from the intestin undergoes, a transformation which renders it incapable of growth hence the negative blood cultures in the usual section of unnary disease due to that micro-organism. He believes also that the boalli are eliminated in the urine in this attenuated condition or under certain excruminators regienerate in the unner Three theories.

have been confirmed by animal esperiments.

The article is concluded with a review of the literature on the pathogenicity of the colon bacillus the attenuation of pathological micro-organisms and the defensive power of the blood against pathological micro-organisms. FIGHENER A CASPINITE.

SURGERY OF THE BONES, JOINTS, MUSCLES, TENDONS

CONDITIONS OF THE BONES JOINTS, MUSCLES TENDONS, ETC

Andrieu Jurta Articular Osteltis (Les ostéttes jurta articulaires) Presse méd Par , 1929 XXXIII 1391

Just a atteular ostetits occurs most frequently in jung minist and adolescent males. In one fourth of the cases there are evidences of tubercalists there are evidences of tubercalists when the cases there are evidences of tubercalists when acid are the boy faces clober most funding. The least may extend to the joint by perforating through the cophyseal and atteular cartilages. In some cases the joint is involved directly because of the normal anatomical proximity of the synovial membrate to the ossessiz lesion. In any case a hydrathrous with thickening of the synovial membrane occurs early At first this side as simply to irri tatous from the neighboring inflammatory process. No bacilican be demonstrated in the joint at this side.

Disturbances of growth are frequent and may be the only evidence of a lesson that has healed. The bone may be abnormally long because of tritation of the epiphyscal cartilage or abnormally short because

of destruction

Involvement of the shoulder is usually secondary to a leason in the humerus involvement of the elbow, to a leason in the humerus involvement of the whole to a leason in the radius. Leasons of the hum usually the new things of the secondary to the secondary when the needs to be a leason in the radius. Leasons of the humerus has not the post of the radius. Leasons the secondary leasons the secondary leasons to the secondary leasons to sead by the secondary leasons to sead by in the support of the secondary leasons to sead by in the support of the sale is the sand in the patella. Involvement of the sale is

usually secondary to involvement of the astragalus The early symptoms of osteitis are variable and often extremely slight. As a rule the patient has vague pains about the joint which are relieved by test and aggravated by exercise Disease of the hip it often manifested by pain in the knee. In the upper extremity pain is less frequent and the first sign of the condition is often a cold abscess. In the knee hydrarthrosis is not uncommonly the first sign of involvement Even in the presence of a fistula these early signs are not sufficient for an exact diagnosis The nature of the condition can be determined definitely only by aspiration of the joint fluid and toentgenography In the roentgenographic examina tion bilateral views should be taken for comparison When there is a fistula the exact site of the lesion can be determined by the injection of hipiodol

The length of time clapsing between the first appearance of the symptoms and the institution of teatment averages ten months in the case of the shoulder from three to four months in the case of the elbow from twelve to sixteen months in the case of the hip from eight to none months in the case of the hip from eight to none months in the case of

the knee and from four to five months in the case of the anike In St, per cent of the cases recovery re suits without operation. The period required for recovery is two years in the case of the shoulder eight een months in the case of the elbow eight months in the case of the wirst from two and a half to three years in the case of the hip and two years in the cases of the kine and anike. Operative trestiment teduces the time of recovery by one fourth. The articular importment is not regarded as particularly others.

To avoid gross errors in the treatment, syphilismst always be evoluted. Orthopedic treatment should be carried out as though joint infection at ready existed. It should include immobilized and inheliotherapy and the aspiration of pus. The operative treatment consists in exaustion and curettage of the focus in the bone. When the patient is first seen late in the course of the diesse this should be done immediately to prevent invision of the joint Early cases are best treated concretively for a time at least in order that the evolution of the kinon may be observed. Operation should always he supplemented by all of the measures employed in constraints extrained.

In the discussion of this report FROELICH de clared himself in favor of conservative treatment

Pouzer stated that the indications for operation vary with the joint in olved. The hip should always be treated conservatively and the clobox surgically SORREL stated that he is in favor of operation in all cases to protect the joint.

ROEDERER pointed out that in the adult, the le sions may evolve very slowly and present the ap pearance of a bone cyst in the roentgenogram

Note Josserann stated that in his opinion the hydrathrosis is usually due to invasion by the tuberde bacilists. He called attention to the fact that the articular lesions are usually quite benign and are not incompatible with a mobility of the joint even in advanced cases. Albert F De Govy M D.

Phemister D B Chondrosarcoma of Bone Surg Gynec & Obst 1930 1 216

Phemster reports ten chondrosarcomata which were found among sarty one bone tumors and sug goest that there should be a sparate group for them the Registry Chondrosarcomata consist of his and the Registry Chondrosarcomata consist of his and the Registry Chondrosarcomata consist of his and the Registry Chondrosarcomata on the very consistent of malgrangers and other evidences of malgrangers are the plotthy shadows in the rocent which casts are gulfar blotchy shadows in the rocent generic sarcomata and metastasure later. Their prog mosts is accomata and metastasure later. Their prog mosts is accomata the tetter than that of osteogenetic sarcomata and metastasure later.

Three of the tumors reported by Phemister oc curred in the femur two in the humerus two in the tibia one in the maxilla one in the spine and one in a rib Chondro arcomata usually develop at the ends of bone shafts some distance from the epiphy seal line and may arise centrally or peripherally

One of the cases reported was that of a negro of twenty mine years who developed a painful swelling on the upper part of the arm following an musty The diagnosis of chondrosarcoma was made from the arregular areas of calculication seen in the roentgeno gram The tumor involved the upper half of the bumerus Amoutation was done after roentgeno grams of the chest were found negative. The patient was alive and well three and a half years later

One of the three patients with a chondrosarcoma of the femur is still living nine years after disartion lation of the hip Microscopic examination showed the tumor to be a rapidly growing neoplasm consist

ing mostly of cartilage

Disarticulation of the hip was done also in one of the other cases of chondrosarcoma of the femur but the patient died with symptoms of cerebral metastuses. In this instance the tumor involved the upper third of the shaft and consisted of immature healin cartilage with irregular areas of calcification and immature bone cells

In the third case of chondrosarcours of the femur the involved area was thoroughly curetted treated with phenol and closed There were no metastases Sections showed that the greater mass of the central tumor to be composed of hyalin cartuage

In one of the cases of chondrosarcoma of the hu merus the upper portion of the humerus was re moved after several unsuccessful attempts had been made to remove the tumor mass around the head of the hone by curettage. A hone graft was inserted to bridge the gap The tumor was made up mostly of cellular by alia cartilage. The patient was still free from recurrence after eight years

The patient with chondrosarcoma of the maxilla thed after a year and a half in spite of two attempts

to remove the neoplasm In the case of chondrosarcoma of a rih death

resulted from metastases in the lungs following re moval of the neonlasm

In the case of chondrosarcoma of the spine that of a man forty six years of age, the tumor developed on one side of the sixth cervical vertebra and caused complete paralysis by exerting pressure on the cord An attempt was made to excise it but a part of it rould not be reached Death resulted after five months

Some chondrosarcomata are peripheral. One of the tibial tumors reported by Phemister occurred on the upper end of the bone in a boy of fourteen years The great mass of it was cartilage with islands of oss fication On amputation in the mid thigh region a thrombus of cartilage was found in the femoral vent Ame months later a suspicious shadow was found in the roentgenogram of the lungs although the boy seemed to be in excellent health

The other chondrosarcoma of the tibia reported occurred in a man of forty years who had had multi ple bony protuberances on his pelvis scapula and several long bones since his twelfth year of age Re moval of the tumor from the tibia resulted in infec tion Amputation was followed by recurrence at the bone of the stump which necessitated re amputa tion A month after the re amoutation the patient was still free from recurrence and metastasis. The author cites also two other cases of this type in one of which amputation at the femur and in the other of which complete wide resection of the tumor was done The patients recovered and were well three and five years respectively after the operation

In conclusion Phemister states that the meta static tumors from chondrosarcomata are cartilign nous and may calcuty WILLIAM A. CLARK, M D.

Liebig F Circumscribed Myositis Ossificant (Die Myositis ossificans erreumschpta) Ergebn d Chie TOTO X TO SOT

Three forms of circumsended myouth ossificans are to be distinguished—the traumatic the non traumatic and the neurotic. The traumatic form which formerly was seen in the form of rider a bone or exercise bone or as the result of bayonet wourds occurs today as the result of sport accidents. Pos tenor luxations of the elbow are responsible for a large percentage of ossifications of muscle. A considerably less frequent cause is luxation of the hip Osseous changes in the scars of operative wounds be long in a special group. The author cites two cases in which ossification followed injections into the giuteal muscles

In discussing circumscribed myositis or ificans of non traumatic origin Liebig calls attention to the uncertainty of the history and reports several cases in which the condition followed an infectious disease and was definitely not of traumatic origin

With regard to the pathogenesis of the neuroh form Liebig discusses dementia paralytica (Gold berg) bemiplegia arteriosclerotica (Steiner) hemi plegta traumatica (Iseael) spina bilida (Eichhorst) tabes dorsalis (Steinert Llemm) syringomielia (Borchardt Schlesinger and others) trausverse myelitis (Kuettner Laux) paraplegia after tord in surres (Israel Ceillier and others) acute anterior poliomyelitis (Drehmann) polyneuritis (Oppen heim) and polyneuritis with Lorsakoff's psi chosis (Lasker) Circumscribed neurotic myositis ossifi ans may develop in the course of any of these conditions

The traumatic form of circumscribed invositis ossificans occurs most frequently in the quadriceps femoris and brachialis muscles. The muscles of the hip joint and the anterior shoulder region are less frequently affected Ossification of scars is found practically only in the abdominal muscles Circum scribed myositis ossificans is most common in the third and fourth decades of life

The condition is often associated with only very slight pain Sometimes there is tenderness on pres sure which decreases in spite of extension of the process Interference with function is dependent upon the site of the assification. The diagnoss is difficult when the my ostis is associated with a fracture and callow formation and myosits are intermingled. Ossification in the scars of wounds is found most often in the midline above the umbilicits after some condition such as stitch infection. In cases affected in the scars of t

The non traumatic and neurotic forms of mynatis ossificans are often discovered accidentally nr at autopsy. The duration of their development varies between weeks and years and the size of the area involved varies from that of a pigeon s egg to that

of a plaque 25 cm long

In the differential diagnosis it is to be borne in much that progressive myositic solaficans begins most often in the muscles of the neck and back whereas general interstitial calcinosis occurs not only in the muscles but also subcutaneously in the team and facial and around the points. Calcium de pound in the tissues and subpernosted sarroum amy matter in the tissues and subpernosted sarroum amy matter in the state of the substitution of legislation of legislations and new bone formation in the abeaths of nerves must be differentiated.

The course shows that there is a statumary type and a type that beals spontaneously. The neurotic form hardly ever heals spontaneously. Recently dathermy and roentgen irradiation have been recommended as treatment. Operation should not be performed until the process has ecased to developed their guest her following meroscopic classification.

t Direct bone formation (a) direct transformation of the bone substance, (b) indirect transition of the muscular connective tissue into bone substance (c) muscular connective tissue into bone substance (c) transition through osteoid tissue 2 Indirect bone function (a) from hydine cartilage or (b) from

fibrocartilage The metaholism and internal structure of the am mal has an influence on the occurrence of betero tropic formation of bone Rona's investigations showed that about two thirds of the blood calcium is dissolved in the blood serum and one third is com bined with the serum albumin Eden found that traumatized muscle tissue is much richer in calcium than normal muscle Rabl was able to demonstrate calcium excess in the tissues histologically by using ammonium ovalate which transforms the dissolved calcium into the readily recognized crystalline cal cium oxalate and does not affect the already de posited calcium phosphate and carbonate Robinson discovered a ferment that splits off inorganic phos phoric acid from the organic phosphoric acid esters at body temperature and at the reaction of the blood Seeliger called attention to methods by which tircumscribed myositis ossificans can be induced ex perimentally With regard to the question as to which tissue has the ability to bring about betero

tropic bone formation there is considerable difference of opinion A few investigators believe it is embryanal tissue A larger number of investigators ascribe the bone formation to a disturbance of the periosteum, but the majority believe it is the result of metaplasia of connective tissue

PERE (Z)

Ogilvie W H. Verrall J Jones W Howell B W and Others Discussion on Minor Injuries of the Elbow Joint Proc. Roy Soc. Med. Lond 1919 xxw 306

OGILVE gives a most detailed description of the separation of the elbow joint. He states that the joint is especially adapted to use between the angles of to and tro degrees early of the thin his range that the greater suffice of the control of the thin his range that the greater suffice from the control of the thin his range that the greater suffice from the thin his range that the greater suffice from the thin his range that the greater suffice from the properties of the properties of the greater suffice from the greater suffer suffice from the greater suffice fr

The carrying angle of from in to 15 degrees of abduction is present only on forred extension and supmation. In complete design the ulia and humerus are in the same line. The thorry that this angle was developed from the carrying of pails is probably erroneous because supmation is not the natural position assumed in the holding of heavy weights and because in the process of evolution (the carrying angle is present in the fetus) elbows were developed multipons of years before pail.

Full extension does not occur in natural use Extension beyond 17n degrees is difficult to maintain In extension of 18n degrees the articular surface of the radius is half its diameter behind the capitellum evidentily a position for which the capitellum was not designed. Up and down motion can be demonstrated

between the ulna and radius

Supracondylar fractures without displacement are common in childhood and may be easily overlooked Early motion is indicated after a few days of im mobilization Fracture of the internal epicondyle is usually due to muscular violence. The fragment is pulled downward The resulting disability is slight although bony union seldom occurs. Oblique frac tures of the internal condyle usually necur in chil dren as the result of a fall on the extended hand The fragment tends to ride upward and should be re duced by traction Fracture of the external condyle may result in cubitus valgus and late ulnar palsy Isolated fractures of the capitellum are rare. When the capiteflum is detached its removal may be necessary Fracture of the radial head with loose fragments in the joint demands arthrotomy with re moval of all fragments Fracture through the neck of the radius requires immobilization for ten days followed by mution If the head is out of alignment, it should be excised

Tennis elbow in which there is pain over the external epicondyle is probably due to the tearing of musche shorn at their origin on the bone. It disappears with rest but recurst it he same sort of work or sport is again taken up. The more scute sort of work or sport is again taken up. The more scute are best treated by applying over the tender spot a small pad wet with a counter irritant and strapping the ellow in supnation of about 133 degrees. Subsacute cases with the formation of fibrous repair tissue require manipulation which stretches the extensors of the whist to their field extent.

VERRALL 38-mbes tenno-elbow to a combination of toins and trauma. He regards anterior dislocation of the head of the radius as a serior condition requiring an immediate attempt at reduction. In alte cases: reduction is sometimes impossible. Verrall believes that fracture of the internal epicondyle should be operated on more frequently.

Jo LS statistics show that except for fracture of the head of the radius from 45 to 78 per cent of el bow injuries occur in the second decade of hie and or per cent of supracondylar fractures alone occur be fore the twentieth year Jones is skeptical regarding the value of massage for stiffness of the elbow after minor injuries. He believes that the quickest way to restore motion in such cases is to do nothing. He states that in myositis ossificans active motion is better than passive motion Fracture of the head of the radius usually results in greater limitation of motion than supracondular fractures. Probably more fragments should be removed. Fractures of the in ternal epicondyle are usually due to a sudden pull of the muscles attached to the encoudale. Ulnar palsa is frequently associated with this injury. If the frag

ment's displared into the joint at should be removed Existive membasses the importance of toxremas in cases of tenns elbow. He has found this condition to be most common after the thirty fifth year of see He states that when he himself was suffering from at his symptoms subsided after the removal of an ataccessed tooth. In a case in which he explored the joint he found arthitic impass on the posterost as pect. With regird to the sider treatment of minor injuries: he states that especially in children the best and quickest results follow normal movements without assistance.

TREIHOWAN reports that he has operated on eight cases of tennis elbow As synovial pouches and finges have been found frequently he concludes that the condition is one of traumatic synovitis of the radioburderal joint Welley A Clark MD

Ghormley R K The Abscess of Pott a Disease Am J Rocaigenol 1929 XXII 509

In general there are two types of absress in Pott a disease the thorace and the lumbar. Because of the differences in the anatomical structures unrounding them these two types of ab cesses vary widely in their behavior. The thorace caberess being which will be the confines of the thoracy by its peculiar structure produces a widespread dissertion of the spinal column surrounding the vertebra with a large act of purulent material. The disease p oress may

be apread over many vertebræ and the result is extensive involvement with serious deformity. The abscesses themselves rarely rupture externally

The lumbar abscess early leaves the spine and ravels along the poas mustle Acco doub, not rever causes such a widespread dissection of the vertebral holdes or as extrasse deformat as the thorace abscesses. However it much more fix quantity reaches the a-rface where its prone to post and become secondarily infected in which ca est constitutes a much more serious menace to like

SURGERY OF THE BONES, JOINTS MUSCLES, TENDONS, ETC

Lever E Operative Correction of Deformities of the Feet (Operative Umforming bet Fehlformen des Fusses) Deutsche Zischr f Chir 1929 ccxx 7

Operative treatment is indicated only for feet of adults with accordary how, changes and permanent joint deformities which cannot be further benefited by orthopedup procedures. Since operative natir ference aims at restoration of the normal form and intuncion all procedures which destroy joint and treatment and procedures which destroy joint and treatment and the substantial of the substant

In cases of complete flat foot Lexer begins with an osteotomy resembling a malleolar fracture. First through a small longitudinal incision he chisels obliquely through the fibula just above the external malleolus and then through an internal curved in cision he loosens the internal malleolus in such a way that its posterior edge is left intact in order that the firm support to the tibialis posticus will not be dis turbed After removal from the exposed surface of the tibia of a wedge-shaped segment with its base di rected upward and anteriorly the internal malleolis is divolaced somewhat forward by means of a U shaped nail and again fastened with strong tension on the deltoid ligament which has been well loosened on both sides. This method has the advantage of making the correction in the joint itself and at the same time correcting any torsion in the region of the malleolus and any spreading of the angle formed by

the two malleon and the end of the tibia As the second stage of the operation a wedge shaped piece as removed from the navicular bone and a cursed fragment from the talus which are ex posed by lengthening the original incision over the internal malleolus and displacing all tendons and fascus from the inner border of the skeleton of the foot In this manner it is possible without injury to the joints to correct the abduction in the anterior part of the foot without resorting to Perthes method of inserting a wedge into the external border and without lengthening the tendon of the peroneus The operation is completed by shortening the tendon of the tibialis pos ious after section of the laciniste Lga ment and displacing the tuber calcanes downward by means of a wedge obtained from the epiphy sis of the tibia by an inverted T shaped cut and inserted hori

zontally into the calcapeus beneath the insertion of the tendon of Achilles After the operation a plaster dresung is left on for three weeks and at the end of

that time exercises are begun

In cases of club foot, the author begins with a dor sal flap incision which after section of all of the ex tensor tendons exposes the tarsus as far as the talus He then performs the osteotomy which resembles a malleolar fracture but in this condition he removes a segment subperjosteally from the fibula in order that the posterior part of the foot may be brought into pronation A curved segment with its base di rected externally is then removed from the talus to obtain abduction of the anterior part of the foot and pronation of the entite foot. This is followed by wedge-shaped resection from the cuboid and in cases of very marked adduction and inward bending of the foot by osteotomy of the base of the first met starsal or all of the metatarsals, lengthening of the tendon of the tibialis posticus and possibly also of the abductor hallucis and section of the plantar fascia lengthening of the tendon of Achilles and shortening and suture of the cut tendons of the extensor digi terum communic

In cases of pes cavus a longitudinal incision is made on the lateral border of the extensor hallucis, s nedge shaped segment is removed from the na vicular bone and a curved segment from the talus Then an incision on the lateral side of the dorsal as pert of the foot a wedge is cut from the cuboid and in the presence of pronounced supination of the cal caneus an osteotomy resembling a malleolar frac ture and subperiosteal resection of the fibula are done In the mo t severe types of the condition de farhment of the shortened plantar aponeurosis and of all the muscles and ligaments from the calcaneus s necessary This is accomplished through a median longitudinal incision extending from the middle of the posterior border of the calcaneus to I isfrane s joint. The structures to be loosened are shaved off b) means of a very sharp thin chisel with care to preserve the periosteum

In the claw foot form of pes cavus wedge shaped sections are removed from the metatarsals the wid

est being taken from the fifth metatarsal

In cases of severe paralytic pes calcaneus opera tions on the tendons are usually insufficient because of the marked deformity especially of the tafus In such cases a wedge shaped segment with its base di rected dorsally must be removed from the talocrural joint If the ankle joint is stiff a choice must be made between operative arthrodesis in the correct position or, when the muscles are in good condition s plastic operation on the ankle SIEVETS (2)

FRACTURES AND DISLOCATIONS

Tavernier L Recurrent Dislocation of the Shoul der (Les luxations récidivantes de l'épaule) Presse med Par 1929 xxxvii 1391

The most important contributions to the literature on recurrent luxations of the shoulder were made by

Grégoire and Bazy who called attention to deformi ties of the head of the humerus and by Oudard, who devised the only operation which prevents recur Tences

The disorder occurs most frequently in athletes and epileptics and between the age, of twenty and that's years Deformity of the head of the humerus is the predisposing cause but trauma is always the

excitins cause It appears that disinsertion of muscles is unim portant Laxity of the joint capsule has been noted frequently but most of the reports do not state the degree or the exact site of the distention and the emportance of the condition is questionable. Teats of the causale undoubtedly favor recurrence Frac ture of the antenor horder of the glenoid fos,a with stripping of the periosteum from the neck of the scapula is an exceedingly rare lesion

The deformity of the humerus is of two types-1 wedge shaped defect in the posterior aspect of the head and the hatchet shaped head. Both are prob ably concepital and seem to interfere with repair of

the capsule Capsulorthaphy is characterized by the author as a blind and illogical method which often gives only temporary results Re-enforcement of the eansule by shortening of the tendons of the infraspinatus and subscapulars and the grafting of fascia lata also fre quently fails Suture of the rent in the cansule is rarely followed by a permanent cure. All surgeons have ahandoned muscle sections and autoniasties The only logical operations are directed to the bone lesions Arthrodesis causes great disability. The tenodeses of Loffler and Henderson are followed by recurrence. Only operations that create an osseous buttress give permanent results. Of these the most satisfactors is the procedure devised by Oudard in which the coracoid process is divided longitudinally and the external segment is turned down to prolong the process By this operation a huttress medial

and anterior to the head of the humerus is formed In the discussion of this report, MAUCLAIRE stated that he had seen cases of recurrent luxation of the shoulder due to distention of the capsule detach ment of the periosteum from the anterior border of the glenoid fossa a defect of the anterior border of the glenoid fossa and hatchet shaped deformity of the head of the humerus He has obtained good re sults by building up the anterior border of the gle nord by bone grafts ALBERT F DE GROAT M D

Baumann F The Diagnosis of Fractures of the Elbow Joint II Fractures at the Lower End of the Humerus Faclusive of Supracondylar Frac tures and Fractures at the Ironimal End of the Radius (Beitraege zur Kenntnis der Frakturen am Flibogengelenk II Brueche am unteren Ende des Humerus ausser Supracondylica und Brueche am prommalen Ende des Radius) Beite z klan Chur 1929 cxlvn 360

T shaped fractures of the lower end of the humerus usually occur in old persons, alcohol addicts and per muscle fibers at their origin on the born. It disappears with rest, but recurs if the same sort of work, or sport is again taken up. The more cruit cases with pour and solveness again from more five the streated by applying over the tender grows a small pad wet with a counter trintant and step of a small pad not with a counter trintant and wet with a counter trintant and with the formation of about 133 degrees substantial or about 133 degrees. The same require that the first which is desired to the same require manipulation which stretches the extension of the want to their full extent.

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TILLIAN A CLARE VID

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Oughtance P A Fractures of the Transverse Processes of the Lumbar Vertebrae A Report of Thirty Three Cases Arch Surg 1920 XIX

In eighteen of the thirty three cases reviewed by the author, the fracture was caused by direct ex ternal violence in one case by displacement of the ihum, and in two cases by indirect violence from a sudden muscle pull. In the others, the mechanism

of the injury was not clear The most valuable aid in the diagnosis is localized tenderness on pressure over the injured process Swelling and ecchymosis are seldom present and aching muscle spasm and weakness are so common

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In a few of the cases reviewed there were no symp toms In some of those in which the fracture had occurred several years previously a diagnosis of back strain had been made. In seventeen cases (more than 50 per cent) the spine was in flexion at

the moment of the injury The processes most commonly fractured are those of the third and fourth lumbar vertebrae Those of the first and second escape injury hecause of their

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separation of the fragments

The incidence of permanent disability is some i mes estimated as high as 40 per cent. In most of the cases reviewed the period of temporary dis abile y ranged from one to three months but in a few it was between six and seven months The dura tion of disability is in direct ratio to the number of processes fractured Disability is sometimea psychic, when the patient is unaware of the nature of the in jury he may continue with his usual work with very little complaint, but when he discovers that a bone is broken he becomes totally disabled for several

Seven of the cases reviewed are reported in detail WILLIAM A CLAPK M D

Rostock P The End Results of the Treatment of Fracture of the Patella (Die Dauererfolge der Patellarfrakturbehandlung) Arch f or hop Chir 1929 XX\U 450

At the Surgical Congress of 1927 Koenig called attention to the desirability of reporting the end results in la ge series of cases of fracture. At the Miners Hospital in Bochum, which receives many of the accident cases in the mining districts of West phaha, a study of the end results of various types of fracture has been begun

Although there have been numerous reports of cases of fracture of the patella, there have been few which have dealt with the treatment and results in large series of cases The author reports the results of his study of the material of the last twenty years from Sections 1 2 and 3 of the Miners Cooperative Society of Bonn Bochum, and Clausthal The ma terral of the Cooperative Society is particularly sut able for such a study because all of the patients are kept under observation until a maximal return of function has been obtained and because the treat ment is carried out not by a master surgeon and his pupils but by a number of physicians in large and small hospitals the results being therefore represen tative of those obtained by the practitioner

In the material reviewed by Rostock there were 154 cases of fracture of the patella This number when compared with the total number of injuries treated shows that patellar fracture is infrequent in the mines. In most instances it occurs in healthy men in the prime of life. Sixteen cases were treated he peripatellar wiring 45 by wire suturing 38 be silk and catgut suturing 51 by conservative meas ures, and a by other methods Fibrous union re sulted in 53 cases osseous union in 95 and anky losis of the knee in 6

Formerly conservative treatment was the method choice. In the development of the operative treatment the Trendelepburg Chinic has made nor ticularly valuable contributions After Thiem's re port to the Surgical Congress in 1905 operative treatment became the more popular but it has not yet been universally accepted. In some cases roent ten examination shows only slight fissures in the patella which do not require surgical intervention In borderline cases the decision as to the most suit able form of treatment is not easy. In determining the indications for operative suture it appears ad visable to roentgenograph the flexed knee, a sug gested by Schultze When the roentgenogram so made shows that the fragments are not widely sepa rated suture is unnecessary and conservative meas mes will be sufficient. Of the conservatively treated cases reviewed by the author osseous union was ob tained in 43 per cent and fibrous union in 57 per cent The relatively high incidence of osseous union indicates that in many of these cases there were fis sures of the patella without much displacement of the fragments

Before discussing the operative methods, Rostock reviews the various incisions employed to expose the patella Volkmann s incision was used in 40 per cent of the cases Hahn s incision in 34 per cent Kocher's incision in 30 per cent Textor's incision in 9 per cent and other incisions in 4 per cent. As all of these are satisfactory it makes little difference what skin incision is chosen

Of the various operative procedures the author discusses first the suture of the periosteum and lat

sons with arteriosclero is. The shape of the line of fracture is almost always the same. The line runs from the supracondylar fossa in the direction of the radio ulnar joint or to a point more to the ulnar side The transversely running line of fracture nearly cor responds to that of supracondylar fractures. The treatment of fractures of this type without marked displacement consists in fixation for a few days and early motion carried out carefully so as not to cause displacement of the fragments. When the fragments are displaced it is best to establish exten ion through the ulna by traction on the humerus held in the yer tical position. In compound fractures communicat ing with ...kin wounds handling of the fragments must be avoided. In such fractures extension on the humorus in the vertical position is doubly convenient as it facilitates dressings. Under certain conditions the largest fragments may be united by screws or nails

Fracture of the lateral coudy le of the humerus oc curs most frequently in the first decade of hie It results from a fall on the hand in which the force is transmitted through the radius from a fall on the olecranon with direct transmission of the blow onto the condyle, or from forceful abduction of the more or less extended arm at the elbow Conservative treatment is advisable only in cases without dis placement or with only very slight displacement of the fragments In all other cases operation must be done If the fragment is well preserved and appar ently still has a good blood supply reduction for lowed by fixation with a pail of screw may be at tempted. If this does not give a good result very quirkly the fragment should be extirpated Extir pation should be done also in all cases in which the fragment has been completely separated or broken into small pieces. When there is any doubt as to whether renosition or extirpation is the better procedure extirpation should be chosen. At the arte of an exterpated fragment a regeneration occurs which serves in maintaining the mobility of the joint and is of value especially in preventing gradual external luxation of the bone, of the forearm. The late results following extirpation of the fragment are usu ally good. An inaccurately replaced fragment does not heal with bony union and by filling in the area of lost tissue, prevents the regeneration of the condy le In the course of decades a slowly increasing pathological cubitus valgus and an upward gliding of the bones of the forearm on the outer side of the bumerus result Not rarely, the increasing valgus position cau es injury of the ulnar nerve even decades after the fracture

Avalsion of the median opnosible is a common occurrence. Its prognosis is good. Even when the availed opnosible is nailed to the site of the fracture and even when it is not of plared it beals with fibrous union inneted of body union. If the opnosible is a removed from its ate of favores supposed to the lateral ligament is sudcasted. It makes little difference in bether the fragment is suid or exiting the provided the ligamentous apparatus is referred.

stored by the procedure. The epicondyle breaks off in a larger area than corresponds to its nuclear area As a rule the elbow joint is opened with the avulsion Not rarely, the fragment is displaced into the joint When this occurs its excision is absolutely necessary In the course of time a fragment which is not ex tirpated is changed into a round form with a new structure in the place of excised fragments very similar new structures (pseudofragments) are formed Bone shadows in the deeper portions of the ligaments and in the external lateral ligament are shown by the roentgenogram much more frequently than is generally as used. Often such shadows can be observed even years after cure of the luxation They may persist but occasionally they retrogress A knowledge of their frequency and of the multi plicity of their forms may prevent errors

In a case of dicondylar fracture of the humerus in a girl twenty one years of age the broken-off tro h lea was immediately removed a good result being obtained.

The breaking off of the lateral epinondyle of the humerus is a very rate injury and apparently does not occur as an avulsion fracture. The author reports two cases due to direct force. The prognous is good. The treatment consists of immediate active mobilization. The diagnosis of this injury can be made only with the aid of the roentgenorgam.

Fractures of the capitulum and of the neck of the radius are due as a rule to a sprain This force pro duces either longitudinal fractures in the head of the radius (chisel fractures) or by forcing the radial neck ento the head of the radius causes transverse fra tures sometimes associated with lateral deviation of the site of fracture. In rare cases the two forms are combined These injunes are very often associated with luxation fracture of the electron and injury of the lateral condyle of the humerus and of the coronoid process of the ulna When the fragments are not dislocated or show only slight dislocation the treatment may consist of immobilization for from six to ten days followed by increasing active motion and massage The results in such cases may be tery good When there is marked dislocation operative reva ton is indicated. In this procedure care must be taken to protect the deep branch of the radial serve In many cases the fragments are completely or al most completely separated and must be removed In cases of fracture of the head of the radius the re sults may be very good or there may be partial in hibition of flexion and extension Rotation is usually well preserved Secondary arthritis is common espe cially in old persons. If the head of the rad as is en turely broken off reposition is to be considered po-wided there is a sufficient bridge of tissue to assure adequate nutrition As a rule the completely broken off head must be exterpated. The result may be absolutely favorable with complete maintenance of mobility but in cases with an extra articular fracture surface there is great danger of ratho-ultar synostosis with complete loss of the power of rotation L. LUM (Z)

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At the Surgical Congress of 1927 Koenig called attention to the desirability of reporting the end results in large series of cases of fracture. At the Miners Hospital in Bochum, which receives many

of the accident cases in the mining districts of West phalia a study of the end results of various types of fracture has been begun

Although there have been numerous reports of cases of fracture of the patella, there have been few which have dealt with the treatment and results in large senes of cases The author reports the results nf his study of the material of the last twenty years from Sections 1 2 and 3 of the Miners' Cooperative Society of Bonn, Bochum and Clausthal The ma terral of the Cooperative Society is particularly suit able for such a study because all of the patients are kept under observation until a maximal return of function has been obtained and because the treat ment is carried out, not by a master surgeon and his pupils but by a number of physicians in large and small hospitals the results being therefore represen tative of those obtained by the practitioner

In the material reviewed by Rostock there were 154 cases of fracture of the patella This number when compared with the total number of injuries treated shows that patellar fracture is infrequent in the mines. In most instances it occurs in health men in the prime of life Sixteen cases were treated by permatellar wiring 45 by wire suturing 38 by silk and catgut suturing 51 by conservative meas ures, and 4 by other methods Fibrous union re sulted in 53 cases osseous union in of and ankylosis

of the knee in 6 Formerly conservative treatment was the method of choice. In the development of the operative treatment the Trendelenburg Chinic has made par ticularly valuable contributions. After Thiem's report to the Surgical Congress in 1005 operative treatment became the more popular but it has not yet been universally accepted. In some cases roent gen examination shows only slight fissures in the patella which do not require surgical intervention In borderline cases the decision as to the most suit able form of treatment is not easy. In determining the indications for operative suture it appears ad visable to roentgenngraph the flexed knee as sug gested by Schultze When the roenthenogram so made shows that the fragments are not widely sepa rated suture is unnecessary and conservative meas ures will be sufficient. Of the conservatively treated cases reviewed by the author osseous union was obtained in 43 per cent and fibrous union in 57 per cent The relatively high incidence of osseous union indicates that in many of these cases there were fis sures of the patella without much displacement of the fragments

Before discussing the operative methods, Rostock reviews the various incisions employed to expose the patella Vnlkmann s incision was used in 40 per cent of the cases Hahn a mersion in 34 per cent Kocher a incision in 30 per cent Textor's incision in 9 per cent and other incisions in 4 per cent As all of these are satisfactory it makes little difference what skin incision is chosen

Of the various operative procedures, the author discusses first the suture of the periosteum and lat

eral ligaments with silk or catgut. This has been done for a long time and is recommended by nemerous surgeons. It has the advantage of lexung metallic forces bodges in the would. This is of importance particularly in accident cases for, as Themana, the particularly in accident cases for, as Themana, by suggestion favor the persistence of subset in the pairs. In the cases reviewed perspatiellar silk or catgut sature resulted in oscous union in 74 per way that the pairs in the cases reviewed perspatiellar silk or catgut sature resulted in oscous without in 74 per catgut sature resulted in oscous without in 74 per catgut sature resulted in oscous without the pairs of the case in the pairs of the cases.

Wire suture of the patella resulted in osseous union in 67 per cent of the cases fibrous union in 24 per cent and ankylosis of the knee in 9 per cent Complete return to working function was obtained in

only 40 per cent

Peripatellar witing comes into consideration chells for fractures with numerous small fragments in which wire suituring cannot be done. Suture of the perusteum with shill or catteriate its blo applicable in such cases but peripatellar witing assures firm adapt tation of small fragments. In the cases reviewed peripatellar witing resulted in osseous union in 65 per cent, and analy 6 is of the lane in 12 per cent. The anisomical results were satisfactory but the functional results were satisfactory but the functional results were easification; but the functional results were satisfactory but the functional results were easification of working capacity was obtained in only 19 per cent.

The author shows the results of the different methods of treatment by means of curves which demonstrate the average lumination of working capacity during each month of the first four years and then for every year. It is quite remarkable that the curves of perspitation wrings were suiter silt, or cat gut sutture and conservative treatment are able except for muon variations. It is therefore curdent in dome or whether in the abvence of dislocation of the fragments conservative treatment is used. The results with regard to the retoration of working capacity are by said large about the same

Another curve was plotted for the cases with complete restartion of working capacity. This shows
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equally effective. However it must be remembered
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Chronological curves plotted for the various methods of treatment show that in recent years the silk or catgut suture has been done more frequently and that there has been an increase in the nucleare of osseous union. The occurrence of and, loss of the kneed has remained constant. Anky losis is to be ascribed

exclusively to disturbances of wound healing. Such disturbances cannot be prevented with absolute cer tainty In cases with ankylo is the permanent re duction of working capacity is considerable. On the other hand, the difference in the functional results of osseous and fibrous union is not great for while os seous union gives better anatomical results it does not always assure good functional results. Occa sionally ideal anatomical healing is associated with marked limitation of function. In the cases re viewed complete restoration of working capacity was obtained in 40 per cent of those with osseous umon and 38 per cent of those with abrous unwin Curves plotted for the limitation of function over a period of time in both types of cases were practically alike Accordingly as far as nothing capacity is concerned it is quite immaterial whether there is fibrous or osseous union, and while the surgeon .hould attempt to obtain osseou union such un on is not essential for good function

Hubmann I Fractures of the Tiblotarsai Joint with Particular Regard to Fracture with For section Fuzzton and Its Treatment (Leber de Frakturen des oberen Sprungseleale mit beondere Beruck, schugung der haiteren Lusationsfraktur und ihrer Behandlung) Beit Hin Chir 1919 cribu 1419.

This is a review of the varieties manner of occur rence and results of treatment of fractures of the tibotarsail joint based on seo cases 53 of which have been under observation for at least a year. Among these there were 21 maileolar fractures complianced by posterior fugation.

The oblique form of fracture of the external mai leolus (supramalleolar longitudinal fracture) must be considered the typical fracture of the tibiotareal joint Its production is due essentially to the and tomical conditions and is independent of the charac ter of the force applied. The anteriorly directed longitudinal fracture described by Bering is a special form of oblique fracture of the external malleolus In the cases r wewed there were 83 fractures of the external malleolus and 16 fractures of the internal malleolus In the p oduction of the 11 typical epi physeal fractures the mechanism was the same as that concerned in the typical malleolar fracture with the formation of Volkmann's triangular fragment in the adult Every third fracture of the tibiotarsal joint exhibited a larger or smaller Volkmann frag ment on the posterior border of the tibia

The 21 fractures with posterior luration were all produced by plantar hyperferion. In only 2 rase were there no changes on the posterior border of the tibia

In general it was found that the malleolar first tures became more sever with increasing age. The average age of patients with fracture of the external malleolus was thirty mine; ears that of patients with frattures molying both malleoli lorry three; pass and that of patients with fractures complicated by posterior fuxation diff; there years. This observa tion at least partially explains the fact that the results of fractures especially fractures of the ankle, become poorer with increasing are

The treatment in the cases reviewed consisted of muchalic reposition with maintenance of position wally by adhesive plaster or the wire extension method of Beck. Active movements were begun early. In cases of fracture with posterior luxation the period of treatment always exceeded four months and frequently six months.

In the 53 cases in which a follow up examination was made there was no example of simple fracture of the external malleolus. Of the 10 patients who were treated for fracture of the external malleolus with avulsion of a triangular fragment from the posterior border of the tibia I had a slightly everted and flat tened foot (pes planovalgus) and was receiving com pensation for disability of 10 per cent Of the 18 pa tients who were treated for fracture of both mal leoli 15 had had no subsequent trouble of any land but 3 who had had a lateral luxation had developed per valgus and were receiving compensation for dis ability of from 10 to 30 per cent Of 14 patients who were treated for bimalleolar fractures with a Volk mann triangle, to were free from symptoms 3 showed a mild pes valgus and t had arthritis de formans Of 11 patients who had been treated for malleolar fracture with posterior dislocation 6 were free from symptoms but 5 had a disability of from to to 30 per cent. In 4 cases the disability was due to arthritis deformans. In 1 case the arthritis had resulted in complete anky losis and in 1 it had re dued the mobility of the joint by 50 per cent. In both of the latter cases the decrease in the mobility of the joint developed after the patient had been dis ebarged In neither could it be ascribed to faulty reposition It is therefore evident that malleolar fractures with posterior luxation do not in them selves give an indication for operation Reposition is possible with the usual non operative methods The naucity of callus formation in the internal malleolus is well known. In 6 of 13 cases of fracture of the internal maileolus a pseudarthrosis developed later and was demonstrated at operation. In 3 of the 6 cases there were symptoms. The symptoms were due to a lateral displacement of the foot which explained also the failure to heal. As the 3 other pa tients with pseudarthrosis of the internal malleolus were free from any noteworthy symptoms it an pears that pseudarthro is of the internal malleolus

does not in itself cause noteworthy disturbances In occasional case with severe malleolar fracture there developed in spite of good primary reposition and even after the corrected position of the frag ments had been maintained for from eacht to ten weeks a lateral displacement of the talus with the production of per valgus or a diastasis between the tibra and fihula In such case, a longer period of fixation and freedom from weight hearing is neces sary Next to arthritis deformans the most trouble some sequela of malleolar fracture is traumatic pes planovalgus. In cases of malleolar fracture with a tendency toward lateral displacement of the talus relief from weight hearing must be continued for from eight to twelve weeks according to the severity of the condition WANKE (Z)

eral ligaments with silk or catgut. This has been done for a long time and is recommended by more our surgeons. It has the advantage of leaving metable loreign bodes in the wound. This is of importance particularly in accident cases for as Thurn has pointed out the presence of a write in the knee may by suggestion (above the permittence of subject ince pairs.) In the cases reviewed perspitcher silk or catgut sature resulted in oscous muon in 7.9 per cat and fibrour union in 50 per catt. In no mistance eat and fibrour union in 50 per catt. In on mistance eat and fibrour union in 50 per catt. In one mistance that the case is the case of the case is the procedure of choice at the Miners. Hospital. Silk over, complete return of normal function resulted in only 31 per cred of the cases.

Wire suture of the patella resulted in osseous union in 67 per cent of the cases fibrous union in 24 per cent and ankylosis of the knee in 9 per cent Complete return to working function was obtained in plete return to working function.

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Hubmann P Fractures of the Tiblotarsal John with Particular Regard to Fracture with Posterior Luvation and IIs Treatment (Liber de-Frakturen des oberen Sprungselenle mit besonderer Berucksichtigung der huttern Luxationsfraktur und förer Behandlung) Bette z klis Chr. 1919 ochw 417.

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The 21 fractures with posterior luxation were all produced by plantar hyperflexion. In only 1 case were there no changes on the posterior border of the

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position to ward off gangrene but does not eradicate the disease. The experimental injections reported gue positive anatomical proof of the vasodifating effects of sympathetic ganglionectomy and confirm in general the clinical impression that the older the person the less adequate the collateral circulation After the artemosclerotic age is reached and arterial occlusion develops the ultimate amount of collateral caculation is usually inadequate and not comparable to that seen in younger persons with thrombo angutis obliterans. This affords a good reason for not attempting vasodilating operations such as sym pathetic ganglionectomy in the treatment of older patients suffering from arteriosclerotic disease. It explains the frequent failures in attempts to save stumps below the knee in cases of arteriosclerosis and the greater frequency of success following the same effort in cases of thrombo-angutis ohliterans

BLOOD, TRANSFUSION

Greenwald H. M., and Sherman I. Congenital
Essential Thrombocytopænia. Am. J. Dis Child
1939 xxxviii 1245

The authors give a hrief review of cases of con gent al essential thrombocytopenia reported in the literature and report a case of their own Their own case was that of a normally delivered infant which showed nobing unusual until the arth day when a rash appeared over the neck and shoulders on the tent day the infant was cyanotic and had slight harmorrhages from nucous membranes and the bowels. There was an extensive purpuric eruption, and the temperature was persistently loss.

Examination of the blood revealed a high red and whate cell count and a harmoglobin content (Sashi) of 122 per cent. The differential blood count showed polymorphonuclear leucocytes 57 per cent hymbocytes 41 per cent mylocytes 17 per cent transitionals 1 per cent 15 nucleated red blood cells, and 30 000 patients The Wassermann reaction was negative.

Fhe child died on the tenth day Autopsy revealed the presence of petechnia bramorrhages on the surface of the right lung a communication between both auricles and ventricles congestion of the liver and a marked reduction in the number of megakaryocytes in the bone structures. This case substantiated Frank's theory that throm

hocytopenia depends upon a lack of megakaryo cytes or their madequate function

CLARE CE V BATEMAN M D

SURGERY OF THE BLOOD AND LYMPH SYSTEMS

BLOOD VESSELS

A Study of the Vessels of the Ex tremitles by the Injection of Mercury Surg Clin Aorth 1m, 1930 x 159

Metallic mercury was injerted into the arterial tree in forty two recently amoutated extremities Seventeen of the extremities were affected by throm bo angutes obliterans and nineteen by arterioscle rotic disease The others represented a miscellaneous group of conditions namely osteomyehtis sarcoma epithehoma, club foot and ununited fracture

The youngest patient with thrombo angutis ob literans has thirty one years of age, and the oldest, sevent) three years. Of those hith artemosplerosis the soungest was forty eight years and the oldest

seventy eight years

In the cases of thrombo-angulas obliterans there were marked variations in the appearance of the at ternal trees which depended upon the extent of the occlusive process in the vessels. In some specimens the arterial tree appeared almost normal and in others it had been entirely occluded and replaced by a collateral circulation which for a long period of time was sufficient to supply the extremity with an adequate amount of blood. In the average speci men the occlusive process was diffuse but patchy in its distribution and the formation of collateral ves sels was marked. This was the most striking feature observed in cases of thrombo-angutis obliterans From the appearance of the roentgenograms it would seem that thrombosis of a segment of a vessel occurs collateral circulation develops above it and then an other segment closes. The relation of the rapidity and extent of the occlusive process to the formation of colla eral ves els determines the ultimate fate of the limb. If the segments affected are farge and the closure is rapid the prognosis is poor if the segments affected are small and the closure is slow the prog nasis is good

In one case in which bilateral lumbar sympathetic ganglionectomy had been performed about one vear prior to the amputation the mass flowed through the capillary bed and into the venous system after filling the arterial tree. In one case the mercury did not pass through into the venou system to any extent even though the patient had been subjected elsewhere to periarterial sympathectory of the popliteal artery by the Leriche-Handley method three weeks prior to the amputation In the cases of arteriosclerosis the results of ob-

servation were fairly constant. In most of the speci mens the main arteries in the leg and foot were patent but were reduced in caliber whereas in many specimens collateral circulation was absent to a rather marked degree Frequently however or

cluded segments were observed in the main arteries and in a few specimens collateral circulation was well

developed

The filling ratios in cases of thrombo angutis obliterans and arteriosclerosis were essentially the same This indicates that the circulation in the two groups of cases must be reduced to es entially the same level before amputation becomes necessary In diabetic gangrene the filling ratio was slightly less than in the average case of artemosclerosis not asso crated with diabetes mellitus In six of the seventeen cases of thrombo angutis obliterans and fourteen of the naneteen cases of arteriosclerosis the occlusive process was so marked that the author was unable to inject the arterial tree. In five cases, the occlusive process was so marked that it was impo sible to in ject the material into the arterial tree even with the use of pressure as high as 200 mm. He

In ca es of diffuse o teomy elitis of the tibia the findings in the roentgenograms with reference to the arterial tree were essentially the same as those in arteriosclerosis The main ves els in the leg and fot were open but collateral circulation in the leg and to a certain extent in the foot was practically absent. This emphasizes that diffuse osteomyelitis of the long bones of the leg affects not only the bones but also the blood vessel of the extremity to the extent that the collateral circulation of the leg may be partially of an extreme cases almost totally or cluded

Marked changes were not observed in the ar enal tree in a leg which was amputated because of a se vere radium burn. They were absent also in a leg amoutated because of sarroma except that the vesels were slightly constricted and distorted as they pas ed through the sarcoma which involved the upper third of the leg

In a case of ununited fracture in the lower third of the tibia injection of the arterial tree showed deb pute construction of the anterior tibial artery opposite the site of the fracture and a marked diminution in the blood supply of the region of the fracture. The fragments were in good apposition. The decrease in the b'ood supply was so definite that it may have been a factor in the non union of the bone

The amount of the injection mass required to fill the arteral tree in cases of thrombo angutis oblit erans and arterioscleros a varied a great deal from

that reported by Lewis and Reichert

Lumbar sympathetic ganglionectomy does not produce a cure in cases of thrombo-angi iis of literans In the three cases which are reported the occlusive process was progressive in spite of the increased for of blood to the extremities following the operation The sucreased flow of blood to the extremutes fol lowing amputation places the patient in a better

It has been found that injections of the Calmette Guena bacilius provoke a positive tuberculin reac

Lea within about two months Of 11 purses who were not vaccinated, 14 devel oped more or less serious tuberculous lesions where as of 136 vaccinated nurses who were serving on identical services only 3 became infected and these developed only slight signs of pleutisy

ALBERT F DE GROAT M D

ANÆSTHESIA

Koenig Death After Avertin Narcosia (Tod nach Avertinnarkose) Zentralbl f Chir 1020 p 1804

This is a report on the death of a woman forty two years old who was operated upon for chronic cholery stitis under anxisthesia induced with avertin and other after the administration of magnesium sulphate One hundred and twenty grams of ether were used On the fourth day after the operation the patient became restless and delirious and her pulse rate and temperature increased. On the eve mag of the fifth day she died in a maniacal attack Autopsy disclosed a markedly acteric liver harmor thages in the renal pelves and cerebral cedema The liver showed central atrophy and fatty infiltra tion of the cells Therefore essentially all of the manifestations of acute yellow atrophy of the liver here presented as in a similar case observed by Pribram The liver function test which was carried out before the operation gave an unsatisfactory result, but its significance was not sufficiently sporeciated. The author emphasizes that a func tional test of the liver is absolutely essential before stertin narcosis When the result is unsatisfactory avertic narcosis is contra indicated

In the discussion of this report, Goerze called attention to the fact that ether alone may cause damage to the liver

killian emphasized the advantages of a pan topon magnesium sulphate mixture which greatly diminishes the psychic trauma of the anasthesia and assures freedom from pain for a considerable period after the operation. He stated that when the body is flooded with magnesium ions the arntability of the nervous system is diminished and the action of the pantopon is increased Kirschner's experience with the intravenous use of avertin has been confirmed by Killian by animal experimenta tion A small dose of avertin given intravenously induces immediate narcosis which passes off in a few minutes without any unfavorable after effects The only danger is overdosage from too rapid administration. In experiments on animals death has been caused by such overdosage. As avertin is similar in its molecular structure to chloroform it is advisable to use for such injection some other drug such as hedonal which is completely destroyed in the body. Intramuscular injection may be safer than intravenous injection and permits as accurate control of the dosage Koenig s fatal case is the fifty second on record in which there was no doubt that the anæsthetic was the cause of death. As Lillian knows of six that have not been reported he believes that many deaths due to avertin narcosis have not been included in the statistics. According to the literature severe circulatory collapse and respiratory disturbances threatening life are about three times as frequent as death. Killian reported a serious accident with avertin in the case of a man sixty two years old who was anæsthetized with a ra em of avertin after preparation with pantopon and magnesium The operation (electrocoagulation of a parotid tumor) was followed by severe dyspnora and evanosis lasting for eight and one half hours As the result of failure of the cough reflex the lungs became filled with mucus Improvement was brought about by lowering the patient's head. The alkala reserve which before the operation was 60 e cm per 100 c cm of plasma fell to 41 c em The patient recovered

REHN emphasized the fact that the normal hier possesses great resistance to anæsthetic toxins even to chloroform but that the damaged liver may react against even harmless drugs such as ether, with marked changes May STRAUSS (Z)

SURGICAL TECHNIQUE

OPERATIVE SURGERY AND TECHNIQUE POSTOPERATIVE TREATMENT

Walker I J How Can We Determine the Efficiency of the Surgical Mask? Surg Gynec & Obst 1939 1 266

This study was suggested by the occurrence of three deaths from him obt is streptococcus infection in cases in which the operative wounds were believed to be clean and recovery was expected. Subsequent investigation thour of that three of the six persons present is the operating room were carriers of the hamolytic streptococcus and that the masks u ed to cover the no e and mouth were not germ proof

A number of tests were therefore carned out to determine the efficiency of various types of masks For these tests a person was selected whose mouth contained a large number of hamoly tie streptococci This subject while wearing the mask spoke for a period of time before an open Petri dish and after incubation of the medium for forty eight hours the colonies were counted. Of seven masks of various types which were subjected to this test not one was found to he germ proof Accordingly efforts were made to devise a mask that would meet the require ments of the test. A mask which has proved satis factory consi ta essentially of a piece of rubber 6 in square between two pieces of gauze to in square The edges of the gauze are turned in and stitched on three sides. The third side is left open to facili tate replacement of the rubber when necessary At the upper part of the mark which covers the area over the nose and mouth the rubber is stitched Also in the upper part there is a small piece of aluminum which can be bent to fit the nose Tapes are attached to each of the four corners The mask is worn in the usual was. It costs very little and can be laundered and sterilized as often as five times VERNE G BUXDEN M D

Fitz Hugh, T Jr Postoperative Hæmorrhage in Hæmorrhagic Conditions Prognosis Preven tion, and Control Med Chn \ Am 1930 xib

The tests shigh the author find, of most value in the case of the

Fitz Hugh believes that no one pre-operative test alone should be relied upon to determine

operability from the standpoint of postoperative hemorrhage. The minimal pre-operative tests abould be the determination of the congulation time of venous blood the determination of the bleeding time and examination of a staned film for evidence of marked abnormalities in the erythrocytes feurocytes and platelets.

A buck survey of the more important types of harmorthagic distheses is presented together with a review of harmotological methods of determining operability from the standpoint of postoperative harmorthage and methods for the prevention and treatment of such branchage

In the author's opinion the best pre-operative preparation of patients with obstructive Jamoice is the intravenous administration of glucose which stimulates hepatic regeneration and reduces the coagulation time. Lot's Pointer Wh

Fuller C. J. An Analysis of Postoperative Pul monary Complications. Lancel 1930 ccx/111 115

The postoperative lung complications in 1.42 cases are reviewed and classified? The most frequent we e broachopneumous and broachins and the next most frequent infarction and massive collapse of the lung. The incidence of lung complications was highest (2 a 6 per cent) after operations on the upper part of the abdomen. Of the operation in the group those performed for inputing leptic user were followed by lung complications that the contraction of the operation of the product of the operation of one to the the operation of one seen to have any direct relation to the incidence of pulmonary complications?

ANTISEPTIC SURGERY TREATMENT OF WOUNDS AND INFECTIONS

Heinbeck: J. Anti Tuberculosis Jaccination of Student Annes at the Ulleral Hospital Osto Student Annes at the Ulleral Hospital Osto Saboutaneous Injections of Calmette Guerta Bacillus Jaccine (Sur la sacrusation pit sentue de la tuberculose par inject on sousculate de Leafle Calmette Guien ches ins éles onificaters de Leafle Calmette Guien ches ins éles onificaters de la Calmette Guien ches ins éles onificaters de la Osto (Sabouta Calmette Sur Leafle (Sabouta Calmette Sabouta (Sabouta Calmette Sur Leafle (Sabouta Calmette Sabouta (Sabouta Calmette Calmette Calmette Calmette de Calmette Guien Calmette (Sabouta Calmette Calmette Calmette de La Calmette Guien Calmette (Sabouta Calmette Calmette Calmette de La Calmette Calmette (Sabouta Calmette Calmette Calmette Calmette Calmette Calmette Calmette Calmette Calmette (Sabouta Calmette (Sabouta Calmette Calmett

For a considerable time it has been the practice at the Ulleval Hospital Oslo to vaccinate student nurses who present a negative on Pringer reaction. The reason is that if not vaccinate thee more are pto develop more or less serious tubercules aboutly after they begin to work in the saying devoted to tuberculous patients whereas more treating positively to the one Pringer test escape the infection entirely or develop only being lesions.

is a relatively being growth, is such as to serve as a vausable disgnostic aid, especially when the primary tumor has been previously excised and the patient presents himself with an abdominal nr other metasta is

Another tumor in which the reaction to irradia thus is sufficiently characteristic to serve as a valuable diagnostic sign is the true beinging giant cell famor of bone. About ten days after exposure to a moderate dose of rays of medium wave length the tumor begans to swell and the swelling is accompanded by refiness of the skin and increased pain diter about two weeks, the swelling redness and Pan Subade and disappear and new hope is gradually deposted in the tumor. In the course of from six to twick months the tumor may be replaced by sold and healthy bone. The diagnoss of guant cell tumor involves a grave responsibility because some of these hopelaness contain malienant elements.

The majority of malignant tumors of bone are only dightly or moderately susceptible to irradia. Some few such tumors are ever cured permanently by any method of treatment. Nevertheless in this even the majority of the reaction to receive no radium rays may sometimes help in establishing the diagnosis.

MISCELLANEOUS

Chanles J General Changes and Changes in the Texth Produced by Fluorin in the White Rat Lord Experimental Experimental Fluoro is (Oleracones generales y dentanas producidas por d'apor ca la rata blanca. La radiacono ultra pole a ca la fluoross experimental) Res Soc argent d'abol, 1937 v, 121.

The author reports experiments in which rats were given sodium fluoride in a 5 1 000 aqueous solution with their food and some of them were treated with ultraviolet irradiation beginning three weeks after the beginning of the experimental in longation.

The growth of the animals was very greatly re tarded by the fluorin but the retardation was considerably less in the animals given ultraviolet irradia

ln addition to the returdation of growth the figuran caused changes in the teeth The teeth lost their sheen and showed the teeth which the less of the

Chaneles J The Effects of Chronic Fluorin In tolication in the White Rat With and Without Actinic Irradiation on the Chemical Com position of the Blood Bones and Teeth (Efectos de la intoricación cronica por el finar en la rata blanca con y sin tratamiento actinico, sobre la composición quimica de la sangre los huesos y los dientes) Rev See argent de biol 1929 y 336

In the experiments reported the animals of Group A were given fluorin in their food and were irradiated with the ultravolet rays those of Group B were given fluorin but were not irradiated and those of Group C were used as controls. Three months after the berginging of the experiments they were killed.

In the animals of Group A the blood calcium was 10 3 mgm per 100 c cm of serum, in those of Group B it was 10 9 mgm and in those of Group C₁ it was

10.6 mgm In the teeth the calcium phosphorus and mag nessum were somewhat decreased in the rats of Group A as compared with the controls but in the animals of Group B the amount of calcium and phosphorus was somewhat higher and the amount of magnessum was somewhat lower than in the controls

In the femora the differences were much less. In the raty given fluorin with or without irradiation the amount of calcium was somewhat less and the amount of phosphorus and magnesium was somewhat greater than in the controls

AUDREY G MORGAN M D

Chaneles J General Changes and Changes in the Teeth Caused by Fluorin in the White Rat Iodine in Experimental Fluorosis (Alteranopse generales y dentanas provocadas por el fluor en la rata blanca El yodo en la fluorosis esperimental) Re Soc argent de bol 1929 v 340

The experiments reported were extraed out on four lots of white rats designated as Lots D E F, and G Those of Lot D were given sodium fluoride with their food those of Lot E sodium iodide and those of Lot F both solutions at the same time. These of Lot G were used as controls. The experiments were carried on for six months.

The animals of Lot D arew more appully than the controls for three months but after three months the females began to lose weight and at the months the males lost weight and at the end of the experiments they weighted 20 per cent less than the controls. There were no thanges in the feat or activity of the animals, and fluorin cachesia did not develop until a few days before death. There were no change in the eyes except acrophthalmas at the end of the experiment in the case of one rat at the end of the experiment in the case of one rat any appearance and slight masal and vaginal hemorrhage occurred.

The animals of Lot F suffered more severely than those of Lot D. The females died at the end of the math week after having lost 69 per cent of their weight. The males hived to the end of the sixth month but lost 35 per cent of their weight. The general symptoms were the same as in Lot D During the last week nasal hemorphages occurred

PHYSICOCHEMICAL METHODS IN SURGERY

ROENTGENOLOGY

Johnson C R Stereoroentgenometry A Method for Mensuration by Means of the Roentgen Ray Am J Surg 1930 vin 151

Stereoroentgenometry is defined as the process of determining the solid dimensions of a radio opaque object from its stereoscopic roentgenograms

An opaque marker is placed on the object to be measured such as the pelvis and roentgenograms are made in the usual stereoscopic manner. The roentgenograms are then superimposed so that the opaque markers on both are in the same position and at various points pin pricks are made through to the film below. When these perforations have been completed and the amount of shut can be measured at given locations on the lower film the film is put into a special apparatus

In this apparatus two threads are arranged to represent the central ray of the \ ray beam in its two positions which are used in making the stereo scopic films These two threads are then run to points on the film one of which has been marked by the above described process of perforation in such a manner that they show the amount of shift of the shadon of the object to he measured. It is obvious that threads in such a position representing the two central rays vill cross at some point in their course It is at this point of crossing that the true location of the object has been. Thus for instance to meas ure a pelvic conjugate one would locate a ventral point by the crossed thread method and leave a marker to fix the location in space. A dorsal point would be similarly located and then by simply measuring the distance between the two markers with a ruler one would have the di tance of the conjugate, or fetal head, or whatever is being measured HILBUR BALLEY MD

Dessauer, F The Question of the Fundamental Biological Reaction of Radiation Radialogy 1930 211 2

This article is a report of experiments andertaken in an endeavor to determine the correctness of the author's hypothesis that the absorbed energy of radiation produces beat at discrete very small points which results in various biological reactions. The at tempt was made to determine what happens in a solution of protein after radiation under exact con ditions The methods used and the results are de scribed in detail The findings are based largely on the number of particles in brownian movement as observed with the ultracucroscope They are illustrated by numerous diagrams

The results are said to go hand in hand with the reactions in the protein itself Periodical appear

ance and disappearance of particles in brownian movement seems to be a general property of colloidal protein solution This fundamental teaction is produced in the same type from the relatively long wave length of ultraviolet light down to the shortest was a length of roentgen rays or gamma rays Quantita tively the influence of the dosage the time factor of the dosage and the period of latency can be studied The observed fundamental reaction in the protein will be found to agree in detail with such a complicated effect as the erythema

ADOLDH HURTENG MD

RADIUM

Designation 4 U The Reaction to Irradiation as a Means of Differentiating Certain Varieties of Tumor Brit J Rodiol 1930 ut 6

Knowledge of the specific radiosensitiveness of different Linds of cells and of the councident suc ceptibility of tumors derived from such cells makes it possible to distinguish certain tumors. The neo plasms most readily identifiable by the character istic and exceptional ensitiveness of the lymphocy tes of which they are largely composed are those which develop in the hamphatic or lymphoid structures generally The reaction of such tumors is usually so exceptional and correspond so closely to that of normal lymphocytes that irradiation constitutes a aluable therapeutic test and makes it possible to secognize such tumors without regard to difference in their clinical features

While it is undoubtedly true that the lymphatic system in general descends from the mesoderm it is true also that certain essentially lymphoid struc tures such as the thy mus gland are derived from the ectoderm Thus, the tadiosensitiveness of the Is mphocytes wherever situated has served to dif lerentiate a group of tumors which heretofo e have been classified as primarily epithelial in character

The only tumor which approaches the lymphoblastoma in susceptibility to irradiation is the pure embryonal carcinoma or seminoma of the testis The reaction of the mixed or teratoid tumors of the tests is less rapid and less pronounced than that of the embryonal carmnoma and varies chiefly each the proportion of spermatogonial epithelium enter ing into their structure Therefore while some of the mixed tumors undergo a considerable degree of retrogression this is almost never complete or fast ing While few embryonal carcinomata retrogress completely the degree of reces ion of such tumors is greater a certain percentage of them disappear com pletely and the effect of the treatment may fast several years. The radiosenativeness of tumors of the testis in general except the true teratoms which

MISCELLANEOUS

CLINICAL ENTITIES-GENERAL PHYSIO-LOGICAL CONDITIONS

Alterations in the Volume of the Normal Spleen and Their Significance Am J M Sc 1930 clasis r

In experiments on dogs in which he exteriorized the spleen, Barcroft found that the spleens of preg past dogs shrank to an "insignificant size and be came very pale during the last ten to fourteen days of pregnancy and that those of control dogs showed a marked but transient contraction during the pe nod of heat Surgical operations were followed by splenic contraction for as long as four weeks

Barcroft suggests that splenic contraction is a compensatory mechanism for changes in the blood volume vasomotor changes in the vessel bed and possibly changes in the quality of the blood

M HERBERT BARKER M D

Blalock A and Bradburn H Distribution of the Blood in Shock The Onygen Content of the Venous Blood from Duferent Localities in Shock Produced by Hæmorrhage by Hista mine and by Trauma Arch Surg 1930 X1 26 The authors experiments and findings are sum

manzed as follows

The oxygen content of blood from (1) the nght side of the heart (2) the portal vein, (3) the femoral vein, (4) the external jugular vein (5) the renal vein and (6) the femoral artery was deter mued in dogs to which barbital had been given for varying intervals of time

2 Similar studies were made after a low blood pressure had been produced by (1) bæmorthage
(2) the injection of histamine, (3) trauma to the intestinal tract (4) trauma to the cerebrum and (5) trauma to one of the posterior extremities

In the control experiments the oxygen content of blood from the right side of the heart and that of blood from the portal vein were approximately the same that of blood from the femoral vern was usually lower, and that of blood from the external lagular vein was slightly higher The oxygen content of blood from the renal vein was usually definitely higher than that of the mixed venous blood

4 About the same relationship existed between the oxygen content of blood from the various sites alter a low blood pressure had been produced by hamorrhage histamine, and trauma to the brain

The oxygen content of blood from the portal ten was much higher relatively after trauma to the intestines while that of blood from the extremities and head was low

6 The oxygen content of blood from the femoral ten of a traumatized leg was high while that of

blood from the opposite extremity and the head was low 7 The oxygen content of blood from the renal

vein was relatively high in all of the experiments

8 These observatione suggest a local accumula tion of blood at the site of trauma to a large area such as the intestinal tract or an extremity and are evidence against the action of a histamine like sub stance producing a general bodily effect

EMIL C ROBITSHEE, M D

Rous P and Gliding II P Is the Local Vaso dilatation After Different Tissue Injuries Referable to a Single Cause? J Exper V 1930 lı 27

Lewis has advanced the theory that local vaco dilatation in response to injury occurs through the influence of a substance derived from the damaged tissue This substance the H substance" is always the same and is probably bistamine. In a serice of experiments upon human beings, the authors found that the response of the tissuee to email scratches and to histamine injections was different With each type of injury the typical wheal 'flare and zone of pallor were produced but in the scratch experi ments in which there was first a short period of venous congestion and then a longer period of ar ternal occlusion Bier's spots appeared coalesced and eventually invaded and obliterated the imital reaction about the scratches, whereas in the hista mine injection experiments performed on different subjects or simultaneously on the same subject. the cites of reaction remained uninvaded by Bier's spote and persisted as small purplish rings

FRANK B BERRY M D

Mackenzie G M and Hanger F M Disease and Serum Accidents J Am M Acc 1010 XCIV. 250

Differences in susceptibility to serum are noted in the sucidence of serum sickness. About ro per cent of persons have no apparent manifestations of serum sickness even when large doses are injected North American Indian and the negro have a very low susceptibility The sera from some horses causes more severe symptoms than those from other When small amounts of serum are used. no manifestations of serum disease are noted in a large percentage of cases but when from 100 to 1 000 c cm are given intravenously evidence of serum disease will be apparent in as high as or per cent of the cases

In patients treated with serum for the first time the incubation period is usually from six to twelve days A previous mjection of serum may shorten the incubatron period The usual symptoms of serum In the animals of Lot E the todale seemed to simulate the growth of the males. The increased growth ended at the end of the third month. After that there was some loss but at the end of six months the animals still showed a gain of 17 per cent as compared with the controls. The lemales also gained but not so much. The animals of this half of the control of the control of the control the others. The control of the control of the control better than that of the controls and they showed no anomalies.

The annuals of Lots D and F showed details changes beginning on the thirty fifth day of the experiments. The tenth became a dury what so do the upper inchors gree long and curved As at the changes in the tenth resembled those noted in annuals after removal of the parathyroids the author concludes that the organs regulating calcium metabolism are disturbed by fluorin

AUDREY G. MORGAN M.D.

Chancles J Microscopic Changes in the Teeth of the White Ras Subjected to Chrome Fluoria intosication With or Without Actuals Irradia tion (Alteracones microscopies de los dentes de la rata Dianac sometida à la niclouscane memora por el fluor con y sus tratamiento actuaco). Res Soc organ de dos 1030 y 325.

In studies of the teeth of white rats subjected to chronic fluorin intorication the author found that the changes were of the same nature in the molars and incisors but were more intense in the incisors. The enamed showed irregular pigmenta ton or mone at all. The prisms were narrow and undulating and their direction with relation to the surface of the dentine was more oblique than nor mal. The dark lines, or stripes of Retzius, were very mal.

prominent
In the dentine there was an exaggeration of the
laminar striation giving a characteristic stratified
appearance. The greater the intoxication the

greater the number of layers the thinner the layers and the more marked the boundary lines between them.

The ameloblasts were shorter and thicker thin

normal and the nucles more rounded. The ename was treegular in thickness and in the fortustive zone showed profound crossons or hypoplasus and marked stratification. The arrangement of the pri ms was irregular. The boundary line between the destitue and enamed was nondulating. The pulp hermated into the dentine in some places as it like action and the state of the st

The changes were of the same nature in rate treated by ultraviolet irradiation and those not so treated but were much more marked in the latter Ultraviolet irradiation evidently neutralizes the action of the fluorin to a certain extent but does not overcome it entit ely ADDEN G Vocaca VID

tiert ulcerative skin lesions and a maculopapular eruption the ulcerative lesions were found on micro scopic study to he sharply circumscribed anarmic in farctions of the corrum and epidermis due to throm bous of the cutaneous vessels secondary to syphilitic obliteration of medium sized vessels at the border of the conum and subcutaneous tissues The great size sharp borders canty exudate and cone shaped form of the ulcers the absence of histological lesions of syphilis in their borders and the absence of spiro chates in the lesions were explained by the secondary miarction process. The malignancy of the syphilitic process was evidenced by the almost complete in solvement of the dermal vessels which led to oblit tration of these vessels thrombosis and consequent infarction of farge areas of the skip

This is a new explanation of the cutaneous levions of malignant syphilis. No case like it has been de sended in the literature Whether the pathological findings will explain other cases appearing chinically as malignant syphilis or whether this case was unique remains to he determined from the study of other cases presenting a similar clinical appearance. If other cases should be found to exhibit the same pic ture of vascular syphilis obliteration of vessels secondary thromhosis and infarction more light will be thrown on the nature of the most severe forms of dermal syphilis In the authors case there was an undoubted su ceptibility to the spirochates on the part of the small blood vessels in various regions of the body. The patient was particularly resistant to treatment but this was in part only apparent since most of the seemingly syphilitic lesions of the skin w re not directly syphilitic hut were necrotic lesions of a s condary infarction. That the treatment was effective so far as the spirochates were concerned was shoun by the enormous number of degenerating organisms found in the tissues Just when this great destruction of spirochates took place it is impossible

The case was unique also in the extensive visceral molvement (thyroid heart pancreas and urinary bladder). It must be remembered however that lew autops es and fewer microscopic studies have been reade in cases of malignant syphilis.

The evidence suggested that the syphilis was ac quited If this is correct the patient was the young est pat ent with arquired syphilitic myocarditis on

Nicroscopic study of the heart showed a mall amount of subepticardial fat with serous atrophy Beesart the endocardium the muscle presented united datty dependance in the muscle presented the mo-ardum there were numerous driuse him plow; to and plasma cell inultrations arranged on the smallest coronary arteres. Many areas on the smallest coronary arteres of the smallest coronary areas on the smallest coronary areas on the smallest coronary areas of the smal

duced a thickening of the endocardium itself. There was no involvement of the larger coronary branches.

HOWARD A. McKNIGHT, M.D.

GENERAL BACTERIAL, PROTOZOAN, AND PARASITIC INFECTIONS

Sager W.W. and Nickel A.C. Localization of Bacteria in Tissues of Lowered Resistance Arch Surg. 1929 XIX, 1086

In rahbits which originally gave negative blood cultures abscesses made by the subcutaneous injection of silver nitrate remained sterile

A number of such abscesses became infected sec ondarly following the infravenous injection of bacteria

The organism isolated from the abscess resembled

The organism isolated from the abscess resembled the organism originally introduced intravenously and had the same elective localizing power

These results may explain why clean surgical wounds sometimes become infected

Campos E De S Experimental Congenital Cha gas Disense (Molestia de Chagas congenita experimental) Bol Sor de med e cirug S Paulo 1939 mil 280

A female dog was inoculated on July 18 1237, when she was nine months old with trypanosoma cruzi taken from a male dog infected experimentally which died with ettensive encephalomiethis myo cardints and nephritis. This female dog whose thood was negative after September 1237 when the acute stage of the infection was over transmitted the infection to the offspring of her first two preg nances one of which began inseren months and the other of which began inseren months after the date of the infection. The puppes were some than the control of the propers were some the control of the propers were some the control of the puppers were some the control of the puppers were some them.

Another fertaile dog which was unoculated April 10, 1938 with the blood of one of the puppies with 10, 1938 with the blood of one of the puppies with congenital infection gave birth on May 30, 1939 more than a year after the infection when her blood was negative to three pulpies with trypano somes in the blood of the contract of the

As the two female dogs used in these experiments were in the Chronic stage of the disease with no parasites in the blood and were bred with healthy males the author concludes that the protozoa lodged in the tissues and were transmitted to the fetures through the placenta

AUDREY G MORGAN, M D

sickness are urticaria rash, rise of temperature for forty eight hours albuminuma cylindruma, and leu cocytosis Optic neuritis and polyneuritis may fol low Relapses of serum sickness have been noted

Following injections of sera precipitins for horse serum appear in the circulation after an interval of from nine to twelve days. When the concentra tion is sufficiently high to react with the borse serum in the blood symptoms of serum sickness In severe serum sickness the fiter of the precipitins in the blood is usually high and there is rapid disappearance of the horse serum from the blood. In persons who tolerate large doses without serum sickness precipitin occurs in small amounts or not at all and the borse scrum may he present in the circulation for months

Serum accidents may be mild or severe. They may appear after an interval of a half an hour or even before the needle is withdrawn. Two groups of persons are subject to such a reaction. One group are the c known as horse asthmatics 'who suffer from asthma or rhinitis when exposed to horse dander Among these may be found some who give a positive skin test to horse serum but who have never had asthma The other group is made up of persons who have become sensitized to horse serum through previous serum treatment. While a percentage of those given tokin antitoxin immunization may give a positive skin reaction for serum the danger of serum sickness is not great and no deaths have been reported from such circumstances. It has heen shown however that persons given a thera neutre dose of serum usually become sensitized and severe and even fatal accidents have followed subsequent injections of serum. However only a small percentage of persons artificially sensitized reach a dangerous degree of sen itization. All available records show but a small number of fatal results

Persons sensitive to horse serum may be identified from a history of asthma or allergic thinitis. A his tory of previous serum treatment bould put the physician on his guard. In all suspected cases a skin test consisting of an intradermal injection of on com of a r ro dilution of the serum should he made. If the reaction is positive at the end of a half hour there is an increase in the size of the in jection wheal with an area of er thema about it The projection of pseudopods from the weal denotes a high degree of sensitivity. The conjunctival test

is also of value

In man desensitization cannot be obtained with the promptness with which it can be obtained in laboratory animals. In the presence of a strongly positive skin test, the first injection of serum should he made subcutaneously and should not exceed o or c cm If no untoward symptoms occur the dose may then be doubled every thirty minutes until I c cm. is given After the usual interval if no reartion is noted, or com may be given intravenously At intervals of thenty minutes this dose may be doubled until the required amount of serum is given Epi nephrin should always be at hand to control a possuble reaction and should be used repeatedly when needed It is a good rule never to make the first intravenous dose of serum more than one-tenth the last subcutaneous dose WILLIAM J LICKETT W.D.

Adam L. Emphysematous Tumors of the Organ ism (Ueber die Luftgeschwuriste des Organismus) 15 I erhandt d ungar Gesellsch f Chir 1929

The author reviews the emphysematous tumors with which he has had experience describes their types and discusses their significance. In teporting the case of a soldier with a skull injury followed by the appearance of air in both lateral centricles of the brain be describes the clinical manife tations of the intracerebral pneumocyst or pneumatocephalus and the intracramal but extracerebral pneumatoce'e and their treatment. He discusses also diagnostic en cephalography and the accumulation of air in the subarachnoid space or the ventucles of the brain after endolumbar pneumography. He tite a case in which operation for recurrent goiter was followed by death from air embolism arising in the basilar artery

Also included in the discussion are glass blowers pneumatocele sub-u aneous emphysema following tracheotomy the significance of open and closed pneumotherax the pneumotherax resulting from valve-like injuries of the lungs and bilateral pieu motherax resulting from bilateral operations for em pyema For such conditions Adam recommends very highly the aspiration apparetus devised by his assistant Jaeger. He discusses also the effect of air an the abdominal cavity from perforations and gas forming bacteria and the value of diagnostic pneu moneratoneum As showing the importance of gas forming micro-organisms he cites a case of cystoid pneumatosis of the cecum and ascending colon in a man forty eight years of age in which no ulcerations or mechanical explanation for the entrance of air could be found. In another of his cases nephrec tomy was followed by the formation of a pneumatic cast the size of two fists about the preteral stump He reports also a case in which through a conne tion between the progenital sinus and the rectum that had persisted since fetal life in the form of Reichel's cloaca gas from the rectum and sometimes faces emptied directly into the bladder. He es posed this is tula by the sacral route incised it and buried it after another surgeon had failed to close it

through the penneal route Addm concludes his article with the observation that the pathological presence of air in the organism is sometimes an important diagnostic ligh sometimes a severe complica ion and sometimes the in dication of a fatal termination Vov LOBRAYER (Z)

Wife U J Wleder L and Warthin A S Mahig nant Syphilis with a New Explanation of the Pathology of the Cutaneous Lesions dm J Syphilis 1939 MY 1

In a case of fatal malignant syphilis occurring in a man twenty four years of age who presented 315 dis-

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NOTE -THE BOLD FACE FIGURES IN BRACKETS AT THE RIGHT OF A REFFRENCE INDICATE THE PAGE OF THIS ISSUE ON HEICH AN ABSTRACT OF THE ARTICLE REFERED TO MAY BE FOUND

SURGERY OF THE HEAD AND NFCK

Head

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Trephination M Balance Bol met de clin quir

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DUCTLESS GLANDS

Teel H.M. The Effect of the Growth Principle of the Hypothysis on the Female Gential Tract with the Report of the Hypertrophic Changes in a Case of Acromegaly Erdact n logy 19.9

Evans and his co workers rendered it possible to study hypophyseal overactivity experimentally by demonstrating that the anterior lobe of the hypophy

is can be administered intrapentoneally

In rats the intrapentoneal administration of an

extract of the anterprofess administration or an extract of the anterprofess of the hypophysis we extract of the anterprofess of the hypophysis we of the agents and the contract of the agents and the agent and the passion of the agents and the agent and the showed only a shight change. In dogs, the use of the extract was followed by overgrowth of the annual an ancrease in the size of the owners to extend turns an access on the size of the owners to extend turns the normal and a marked nuclease in the size of the

uterus and vagona but there was no lutenization. These results may be explained by assuming that there are two hormones in the hypophisis one of which is the growth principle and the other of which is the hypophyseal set hormone. The growth hormone would explain the increase in the size of the dogs uterus and vagina while the hypophy sell sex hormone would explain the ownamic changes found the property of the contract which is the contract which is the size of the dogs uterus and vagina while the hypophy sell sex hormone would explain the ownamic changes found

in the rats

In the human heme hyperpicutatram is usually as-coated with adeconate compo of of artifophic cells while according to Smith and Engle the cells repossible for stimulation of the goods, are hasophic cells. Accordingly it would be higher and phile cells. Accordingly it would be higher and phile administration and marked acromically without amesorithms there is an excess of only the growth producing principle of the gland.

This assumption is substantiated by the findings in a woman forty two years of age who had had acromeguly for two years and in whom the \ ray showed dehmte expansion of the outlines of the sella together with skeletal changes of acromegaly else where Radiation of the hypophy is was followed by almost immediate improvement in the acromegaly but two months after the treatment menorrhagia occurred for the first time the uterus was found to be as large as a grapefruit the external genitalia were more vascular farger and thicker than before the labra were redundant, and there seemed to be con siderable vascular stasis. At operation performed four months after the initial \ ray treatment of the hypophysis the genital tract was found markedly hypertrophied and congested All of the privice organs were congested and hypertrophied except the ovaries which were of normal size Micro scopically the uterus showed hypertrophy with hyperplassa of the endometrium and polyp forma tion. The ovaries showed only a few simple cyats

The buddings in this patient resembled in many respects the findings in the dogs with experimental scromegal, namely hyperplass of the entire guarditart without straining his tolorial changes in the orary. This observation suggests that in the female the growth promoting, putuaghe may produce marked hyperplass of the gential tract as well as the budsil grantism. Surrary I focusion M to

Cole L Parathyroid Tetany and Cataract Land

The author reports a case of tetam, and cateract formation following thyroidetomy. The tetany was controlled by the usual feeding of mine and calcium lactate and the administration of parathormose but the cateract, we eno average by control of the tetam.

M. Hernere Ruere M.D.

LILLIE and H L WILLIAMS IR Sure Clin North Am 1930 I, 86

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Nose and Sinuses

The corrective operations for nasal deformaties I Re moval of humps A RETHI Chirurg 1929 1 1103 Reconstruction of the ala nass by the Argentine method O lyavi sevicit and R Ferrant Bol anst de chin Quif 1930 vi 279

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